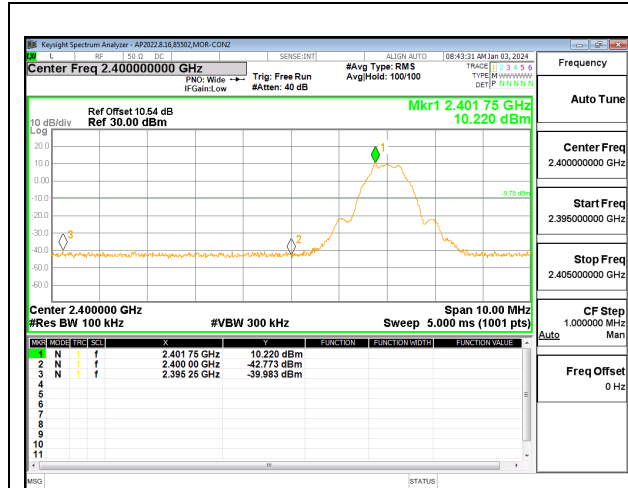
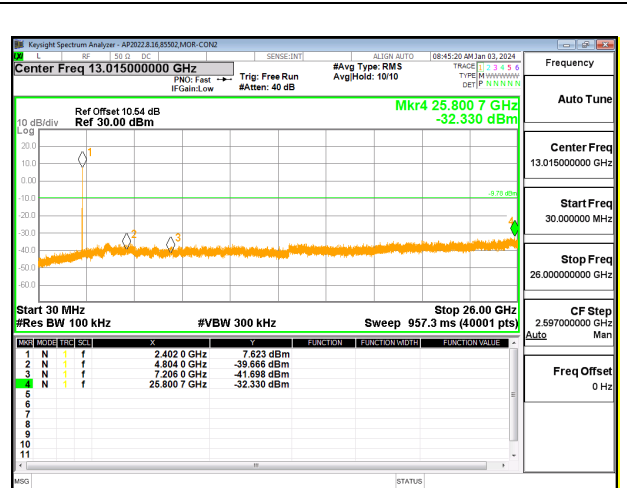


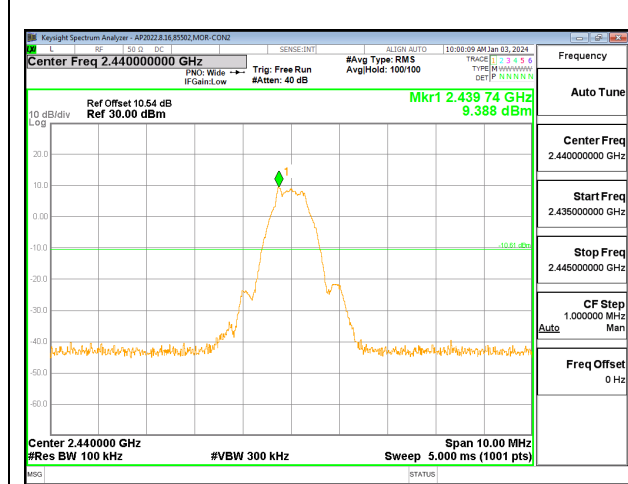
Chain 1



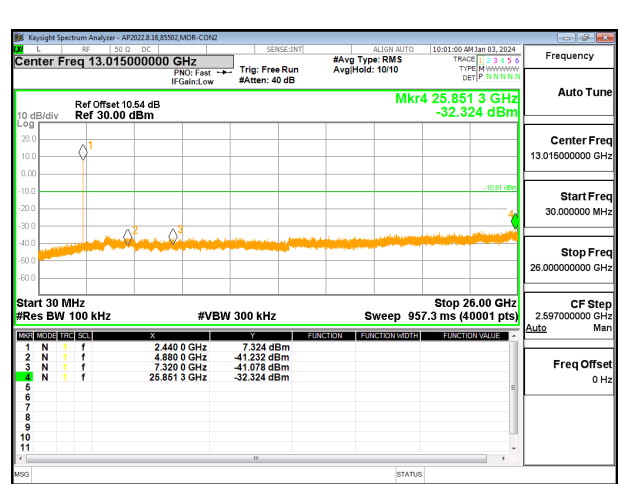
LOW CHANNEL BANDEDGE



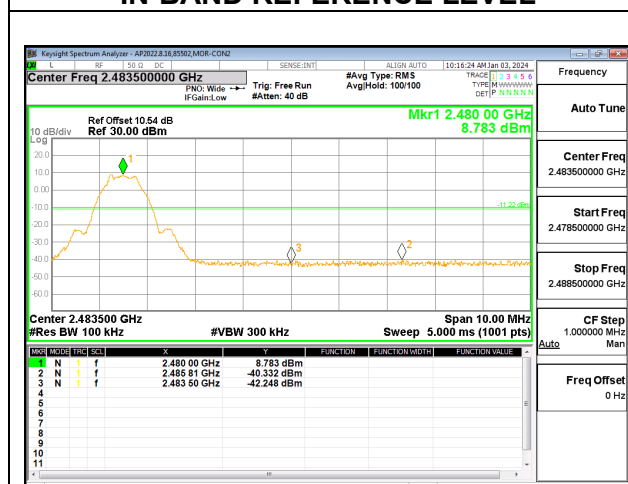
OUT-OF-BAND LOW CHANNEL



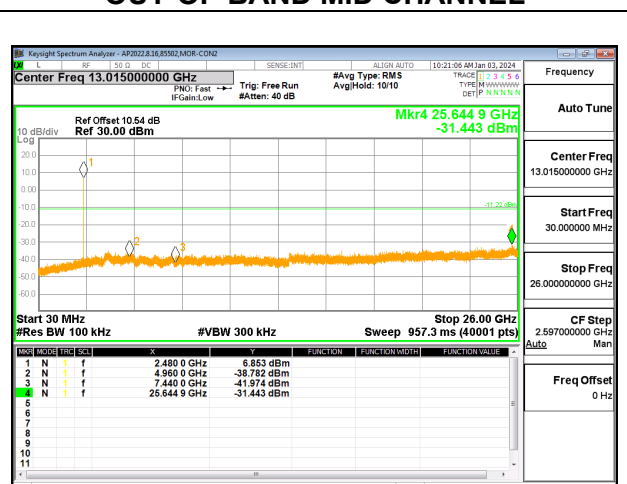
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 0.009-0.490 | 2400/F(kHz) @ 300 m | - |
| 0.490-1.705 | 24000/F(kHz) @ 30 m | - |
| 1.705 - 30 | 30 @ 30m | - |
| 30 - 88 | 100 | 40 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46 |
| Above 960 | 500 | 54 |

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements. Linear Voltage Averaging was used.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest power spectral density was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

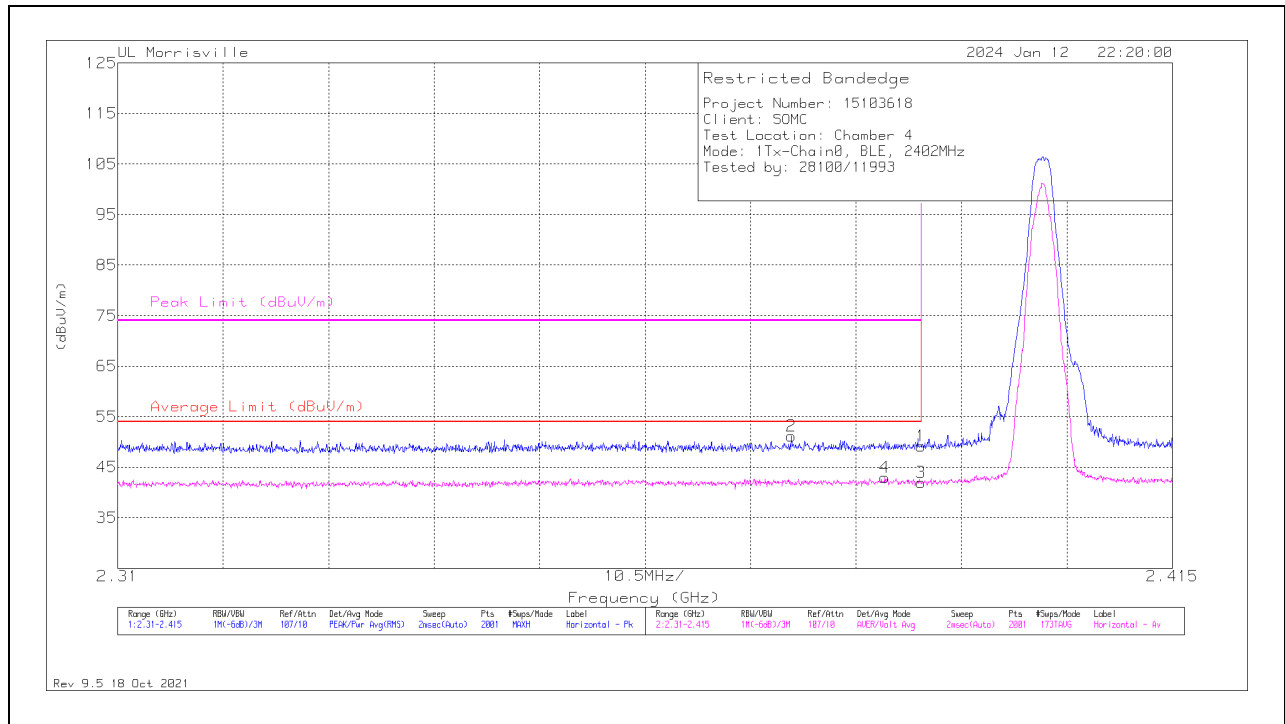
10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. BLE (2Mbps)

Chain 0

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.38996 | 30.38 | Pk | 32 | -13.2 | 0 | 49.18 | - | - | 74 | -24.82 | 52 | 100 | H |
| 2 | * ** 2.37704 | 32.34 | Pk | 32 | -13.2 | 0 | 51.14 | - | - | 74 | -22.86 | 52 | 100 | H |
| 3 | * ** 2.38996 | 18.37 | ADV | 32 | -13.2 | 4.79 | 41.96 | 54 | -12.04 | - | - | 52 | 100 | H |
| 4 | * ** 2.38634 | 19.3 | ADV | 32 | -13.1 | 4.79 | 42.99 | 54 | -11.01 | - | - | 52 | 100 | H |

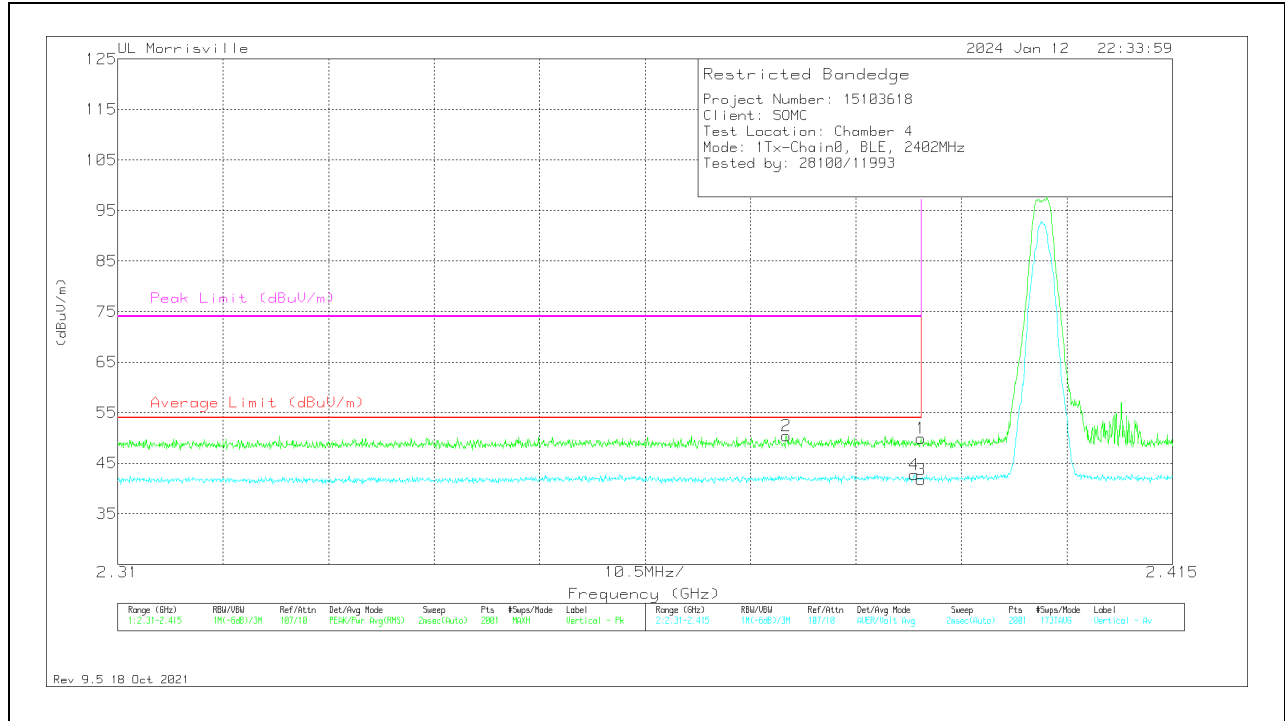
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

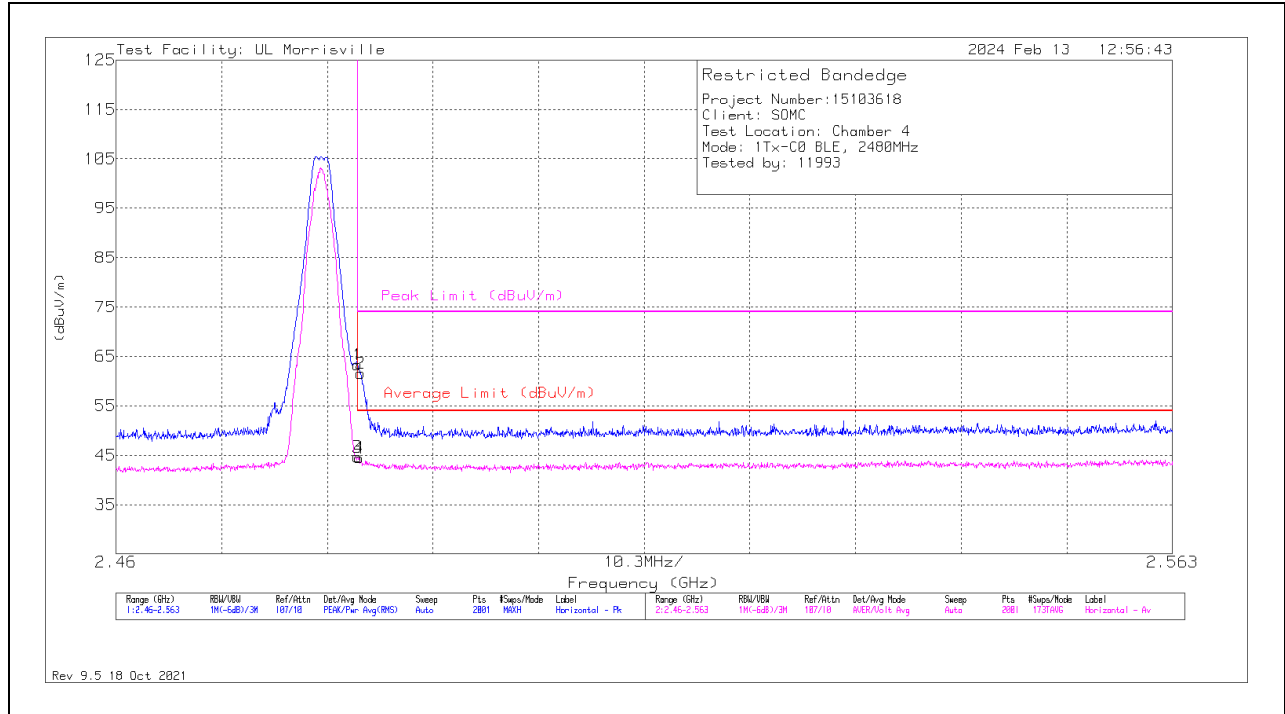


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38996 | 31.14 | Pk | 32 | -13.2 | 0 | 49.94 | - | - | 74 | -24.06 | 70 | 115 | V |
| 2 | *** 2.37657 | 31.65 | Pk | 32 | -13.2 | 0 | 50.45 | - | - | 74 | -23.55 | 70 | 115 | V |
| 3 | *** 2.38996 | 18.17 | ADV | 32 | -13.2 | 4.79 | 41.76 | 54 | -12.24 | - | - | 70 | 115 | V |
| 4 | *** 2.38928 | 19.16 | ADV | 32 | -13.2 | 4.79 | 42.75 | 54 | -11.25 | - | - | 70 | 115 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

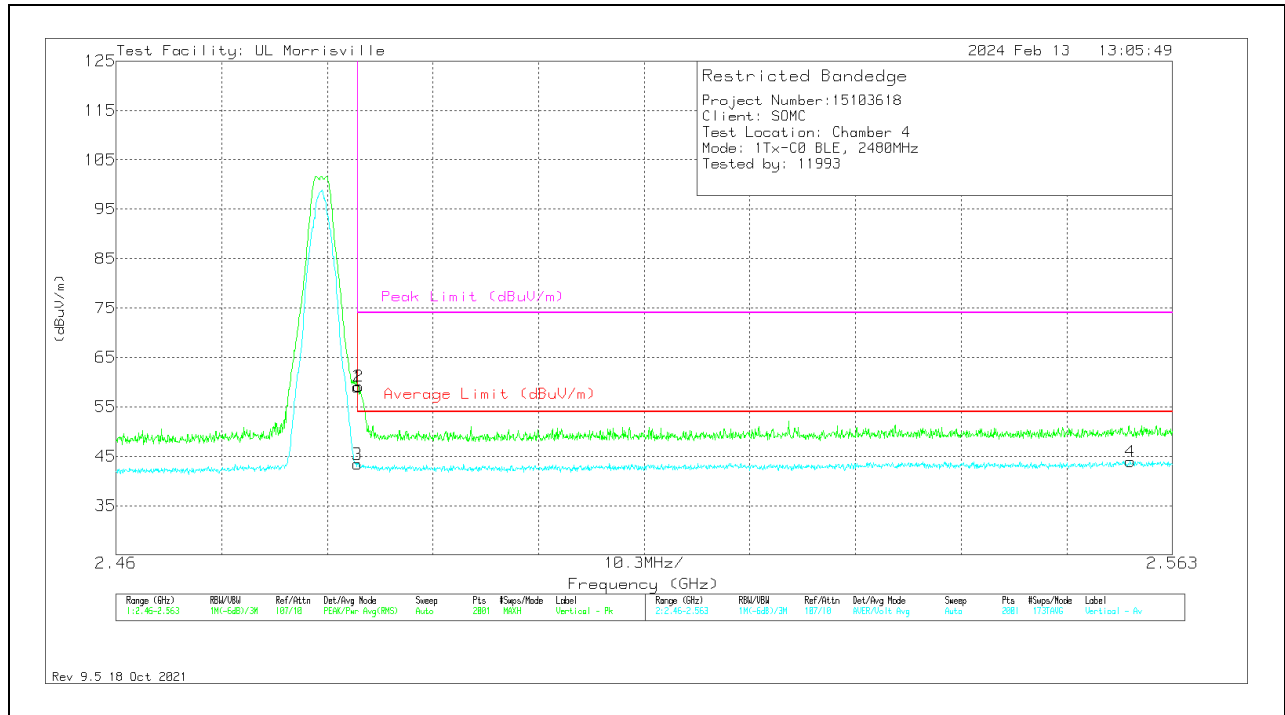
HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.48354 | 43.95 | Pk | 32.3 | -12.9 | 0 | 63.35 | - | - | 74 | -10.65 | 167 | 239 | H |
| 2 | * ** 2.48384 | 42.23 | Pk | 32.3 | -12.9 | 0 | 61.63 | - | - | 74 | -12.37 | 167 | 239 | H |
| 3 | * ** 2.48354 | 20.46 | ADV | 32.3 | -12.9 | 4.79 | 44.65 | 54 | -9.35 | - | - | 167 | 239 | H |
| 4 | * ** 2.48369 | 20.27 | ADV | 32.3 | -12.9 | 4.79 | 44.46 | 54 | -9.54 | - | - | 167 | 239 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.48354 | 39.59 | Pk | 32.3 | -12.9 | 0 | 58.99 | - | - | 74 | -15.01 | 94 | 295 | V |
| 2 | * ** 2.48364 | 39.75 | Pk | 32.3 | -12.9 | 0 | 59.15 | - | - | 74 | -14.85 | 94 | 295 | V |
| 3 | * ** 2.48354 | 19.2 | ADV | 32.3 | -12.9 | 4.79 | 43.39 | 54 | -10.61 | - | - | 94 | 295 | V |
| 4 | ** 2.55888 | 19.38 | ADV | 32.5 | -12.7 | 4.79 | 43.97 | 54 | -10.03 | - | - | 94 | 295 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

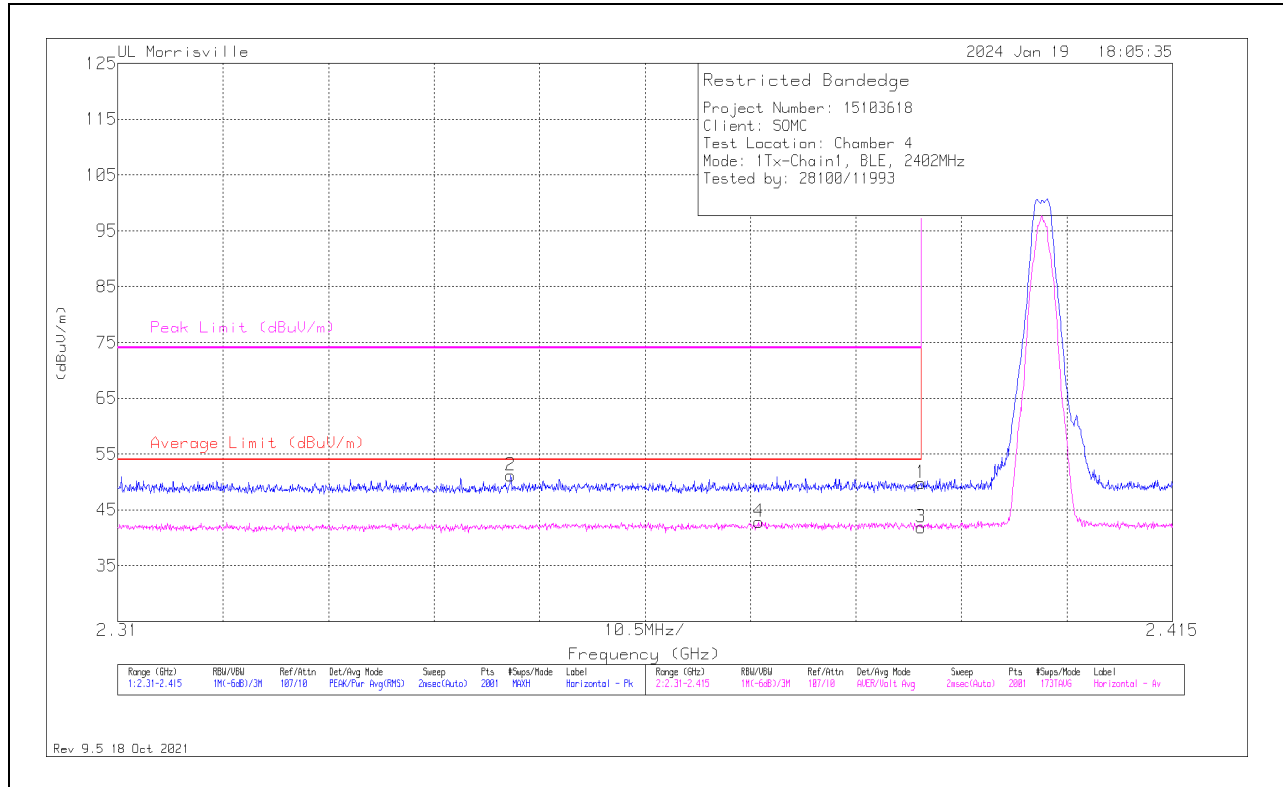
Pk - Peak detector

ADV - Linear Voltage Average

Chain 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.38996 | 31.02 | Pk | 32 | -13.2 | 0 | 49.82 | - | - | 74 | -24.18 | 356 | 133 | H |
| 2 | * ** 2.34911 | 32.42 | Pk | 31.8 | -13.1 | 0 | 51.12 | - | - | 74 | -22.88 | 356 | 133 | H |
| 3 | * ** 2.38996 | 18.24 | ADV | 32 | -13.2 | 4.79 | 41.83 | 54 | -12.17 | - | - | 356 | 133 | H |
| 4 | * ** 2.37384 | 19.34 | ADV | 31.9 | -13.2 | 4.79 | 42.83 | 54 | -11.17 | - | - | 356 | 133 | H |

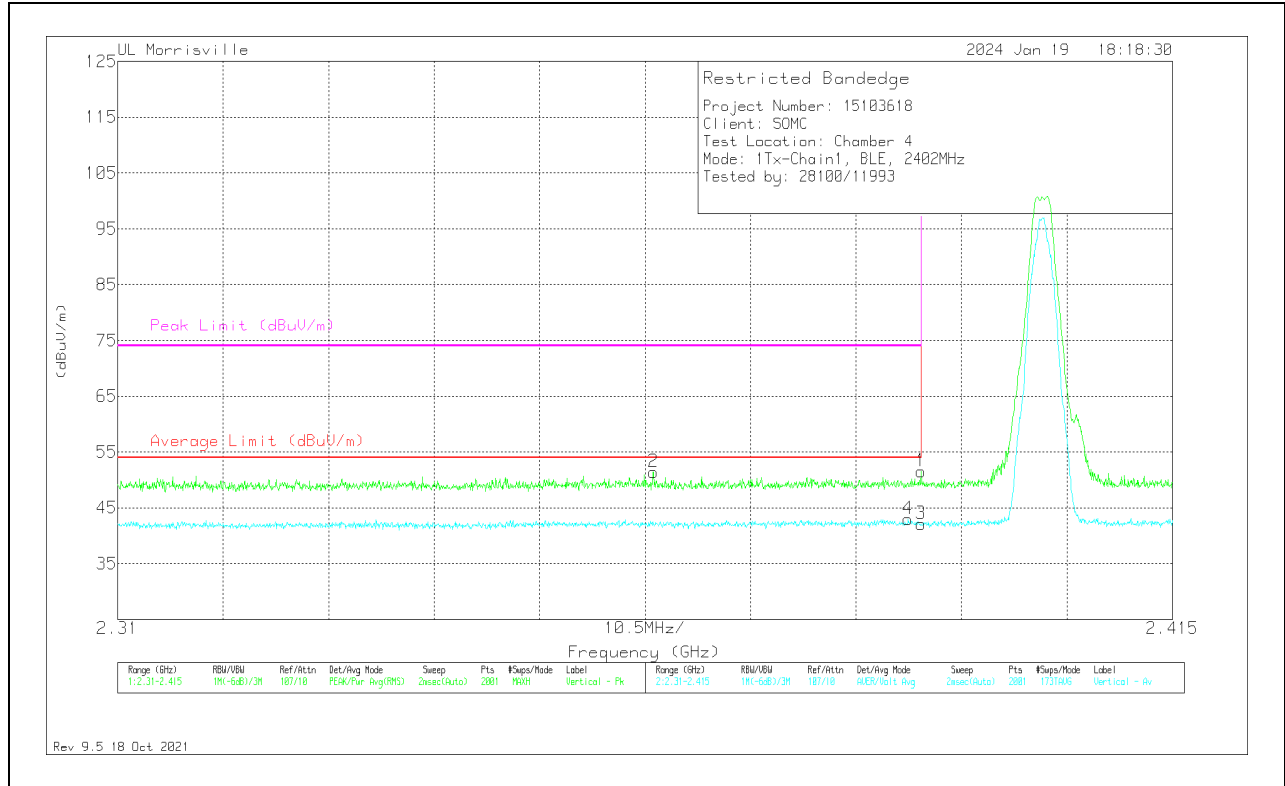
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV -Linear Voltage Average

VERTICAL RESULT

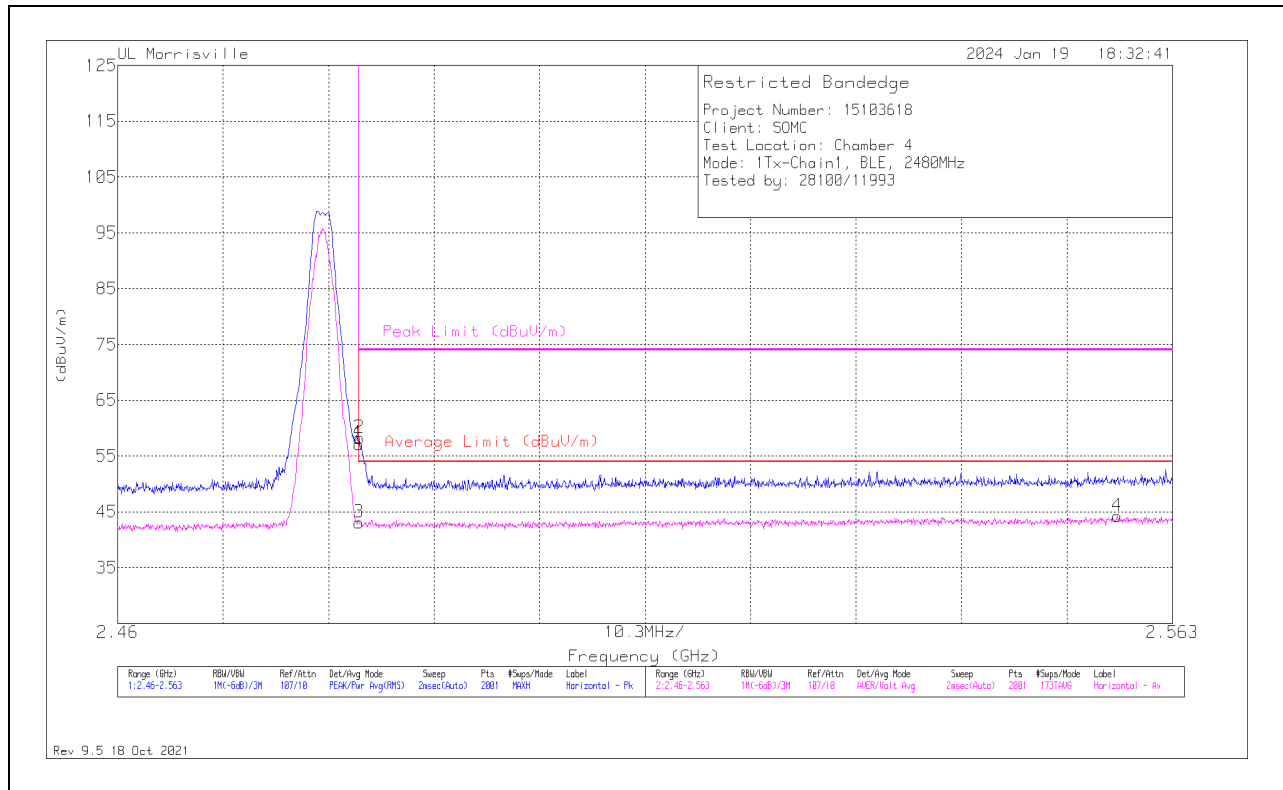


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.38996 | 32.72 | Pk | 32 | -13.2 | 0 | 51.52 | - | - | 74 | -22.48 | 356 | 133 | V |
| 2 | * ** 2.36334 | 32.62 | Pk | 31.9 | -13.1 | 0 | 51.42 | - | - | 74 | -22.58 | 356 | 133 | V |
| 3 | * ** 2.38996 | 18.53 | ADV | 32 | -13.2 | 4.79 | 42.12 | 54 | -11.88 | - | - | 356 | 133 | V |
| 4 | * ** 2.3887 | 19.43 | ADV | 32 | -13.2 | 4.79 | 43.02 | 54 | -10.98 | - | - | 356 | 133 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

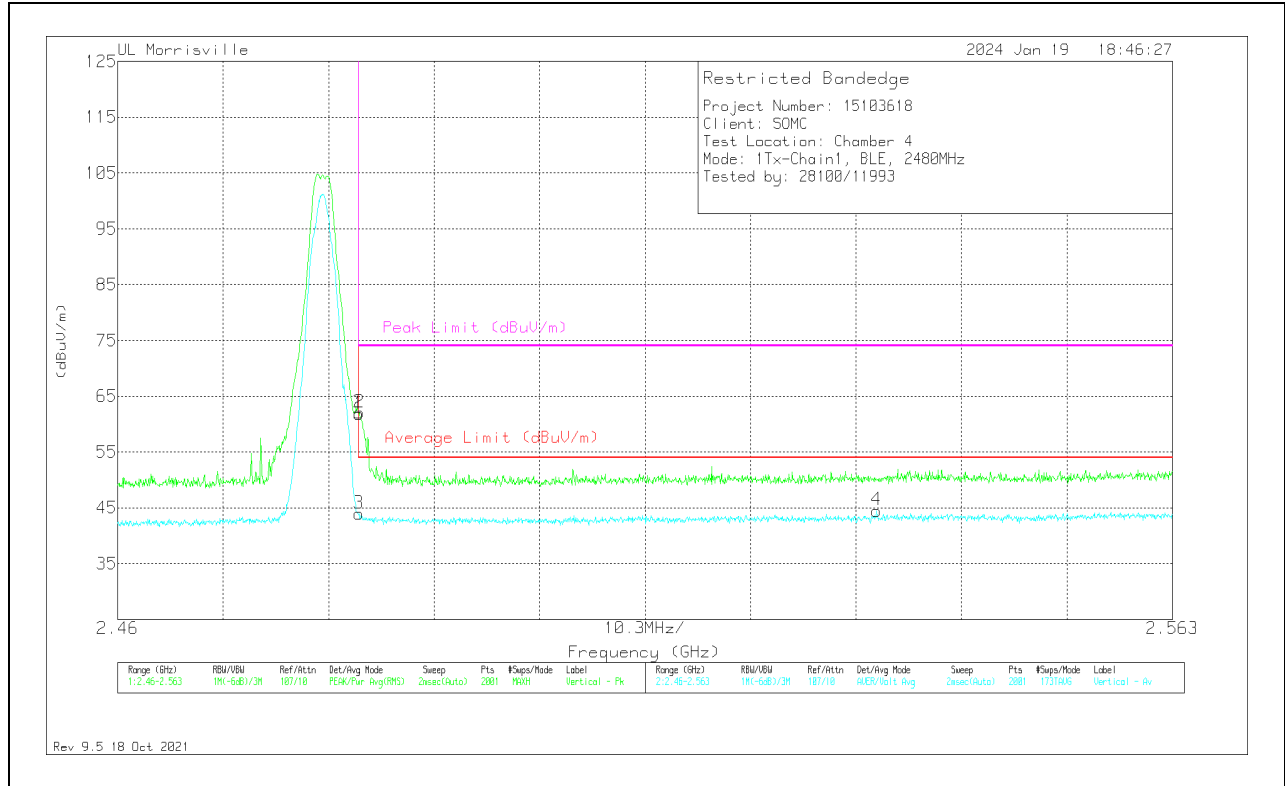
HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.48354 | 37.78 | Pk | 32.3 | -12.9 | 0 | 57.18 | - | - | 74 | -16.82 | 356 | 133 | H |
| 2 | * ** 2.48359 | 38.79 | Pk | 32.3 | -12.9 | 0 | 58.19 | - | - | 74 | -15.81 | 356 | 133 | H |
| 3 | * ** 2.48354 | 18.89 | ADV | 32.3 | -12.9 | 4.79 | 43.08 | 54 | -10.92 | - | - | 356 | 133 | H |
| 4 | ** 2.55759 | 19.58 | ADV | 32.5 | -12.7 | 4.79 | 44.17 | 54 | -9.83 | - | - | 356 | 133 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.48354 | 42.43 | Pk | 32.3 | -12.9 | 0 | 61.83 | - | - | 74 | -12.17 | 315 | 101 | V |
| 2 | * ** 2.48359 | 42.7 | Pk | 32.3 | -12.9 | 0 | 62.1 | - | - | 74 | -11.9 | 315 | 101 | V |
| 3 | * ** 2.48354 | 19.81 | ADV | 32.3 | -12.9 | 4.79 | 44 | 54 | -10 | - | - | 315 | 100 | V |
| 4 | ** 2.53411 | 20.23 | ADV | 32.4 | -12.9 | 4.79 | 44.52 | 54 | -9.48 | - | - | 315 | 100 | V |

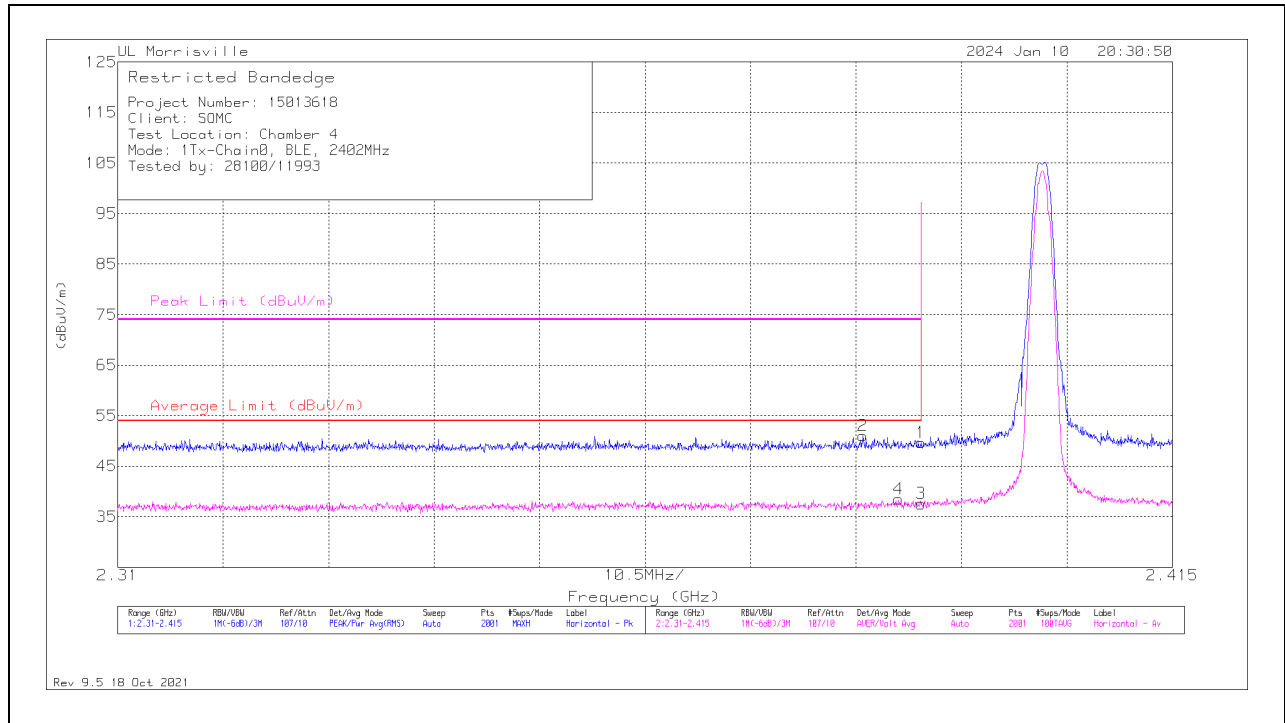
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

10.2.2. BLE (125Kbps)

Chain 0

BANDEDGE (LOW CHANNEL)

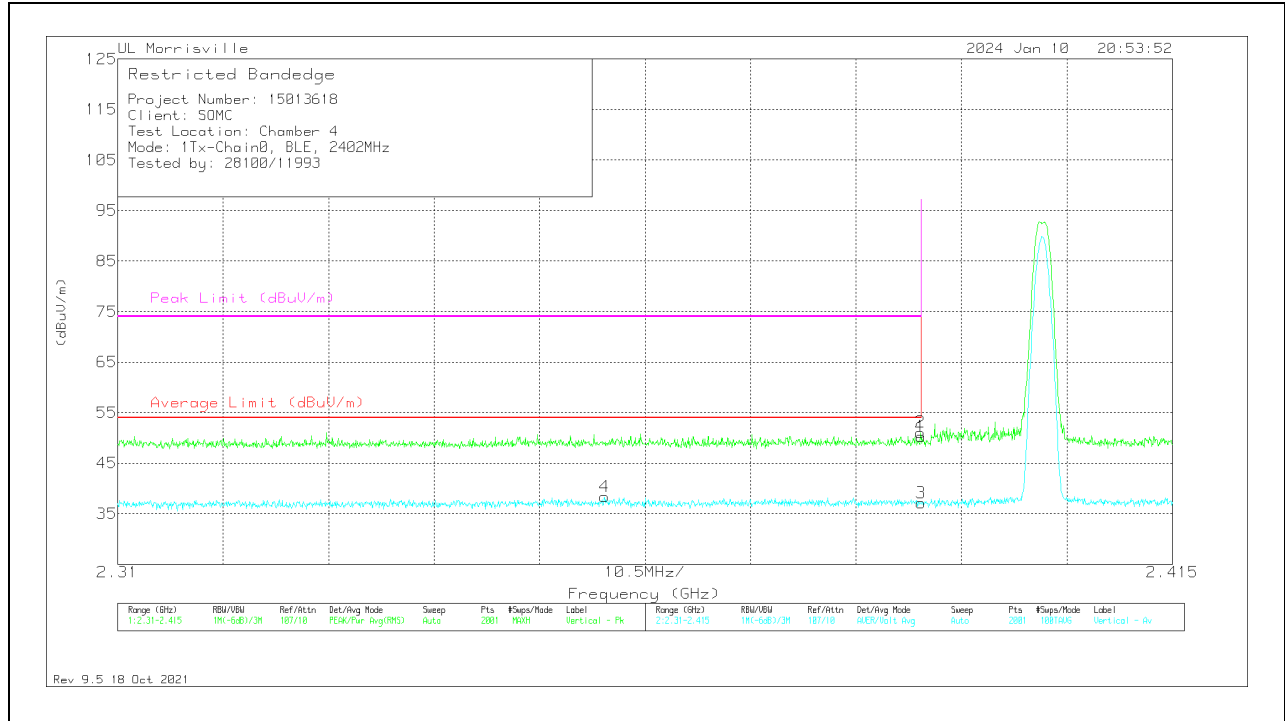
HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.38996 | 30.88 | Pk | 32 | -13.2 | 0 | 49.68 | - | - | 74 | -24.32 | 64 | 136 | H |
| 2 | * ** 2.38418 | 32.28 | Pk | 32 | -13.2 | 0 | 51.08 | - | - | 74 | -22.92 | 64 | 136 | H |
| 3 | * ** 2.38996 | 18.54 | ADV | 32 | -13.2 | .23 | 37.57 | 54 | -16.43 | - | - | 64 | 136 | H |
| 4 | * ** 2.38775 | 19.39 | ADV | 32 | -13.1 | .23 | 38.52 | 54 | -15.48 | - | - | 64 | 136 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

VERTICAL RESULT

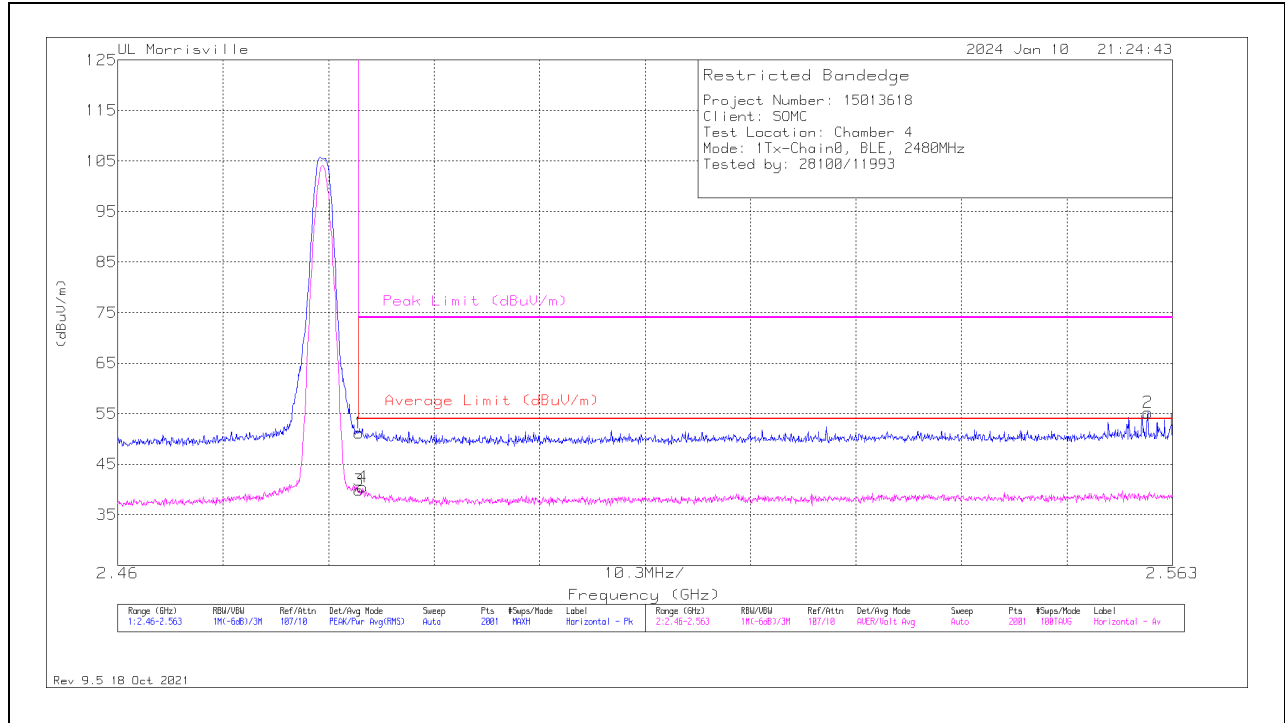


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.38996 | 31.46 | Pk | 32 | -13.2 | 0 | 50.26 | - | - | 74 | -23.74 | 64 | 136 | V |
| 2 | *** 2.38991 | 32.3 | Pk | 32 | -13.2 | 0 | 51.1 | - | - | 74 | -22.9 | 64 | 136 | V |
| 3 | *** 2.38996 | 18.13 | ADV | 32 | -13.2 | .23 | 37.16 | 54 | -16.84 | - | - | 64 | 136 | V |
| 4 | *** 2.35846 | 19.39 | ADV | 31.9 | -13.1 | .23 | 38.42 | 54 | -15.58 | - | - | 64 | 136 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

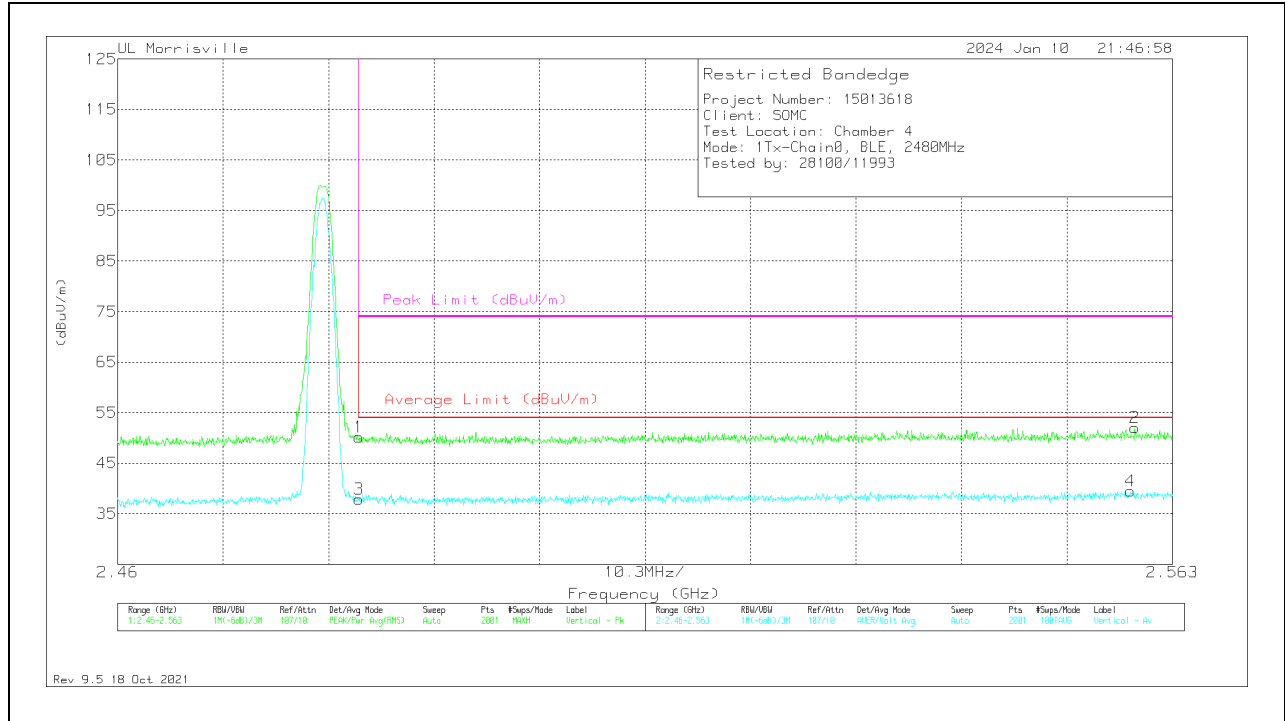
HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.48354 | 31.8 | Pk | 32.3 | -12.9 | 0 | 51.2 | - | - | 74 | -22.8 | 66 | 132 | H |
| 2 | ** 2.56063 | 35.5 | Pk | 32.5 | -12.8 | 0 | 55.2 | - | - | 74 | -18.8 | 66 | 132 | H |
| 3 | * ** 2.48354 | 20.27 | ADV | 32.3 | -12.9 | .23 | 39.9 | 54 | -14.1 | - | - | 66 | 132 | H |
| 4 | * ** 2.48395 | 20.85 | ADV | 32.3 | -12.9 | .23 | 40.48 | 54 | -13.52 | - | - | 66 | 132 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.48354 | 30.73 | Pk | 32.3 | -12.9 | 0 | 50.13 | - | - | 74 | -23.87 | 83 | 120 | V |
| 2 | ** 2.55934 | 32.19 | Pk | 32.5 | -12.7 | 0 | 51.99 | - | - | 74 | -22.01 | 83 | 120 | V |
| 3 | * ** 2.48354 | 18.24 | ADV | 32.3 | -12.9 | .23 | 37.87 | 54 | -16.13 | - | - | 83 | 120 | V |
| 4 | ** 2.55888 | 19.5 | ADV | 32.5 | -12.7 | .23 | 39.53 | 54 | -14.47 | - | - | 83 | 120 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

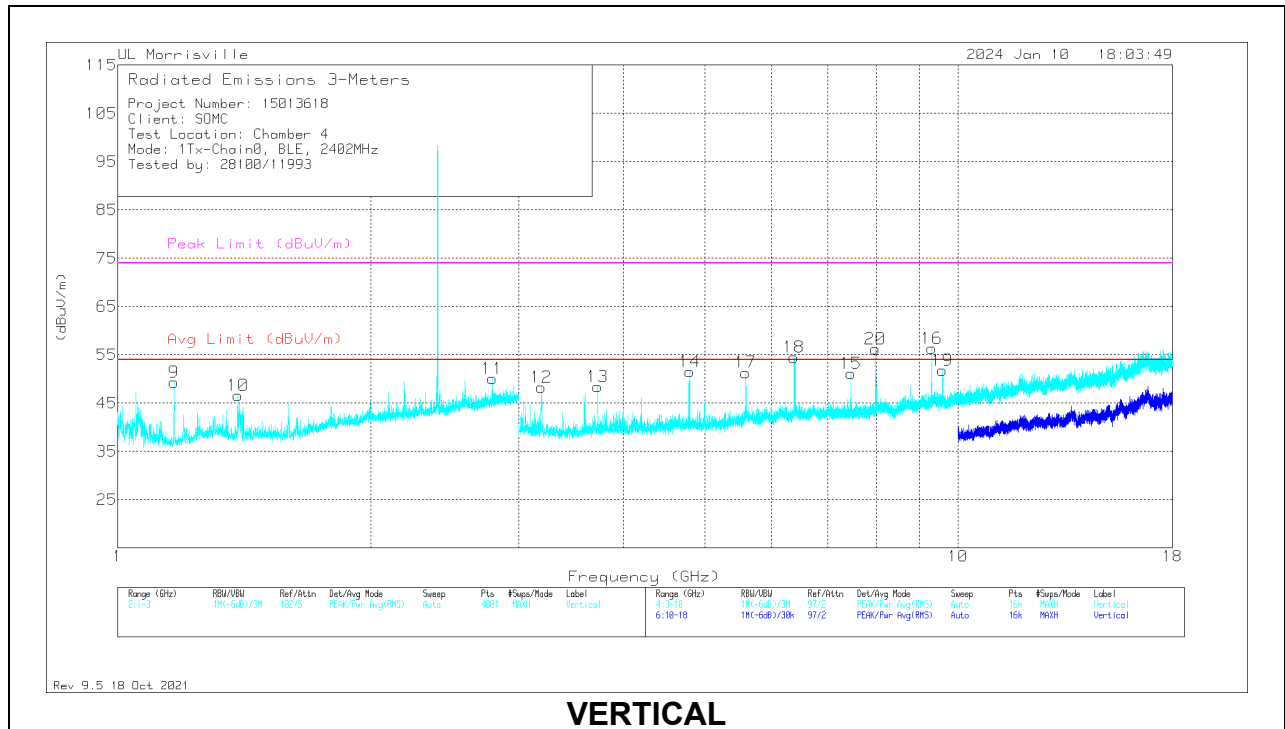
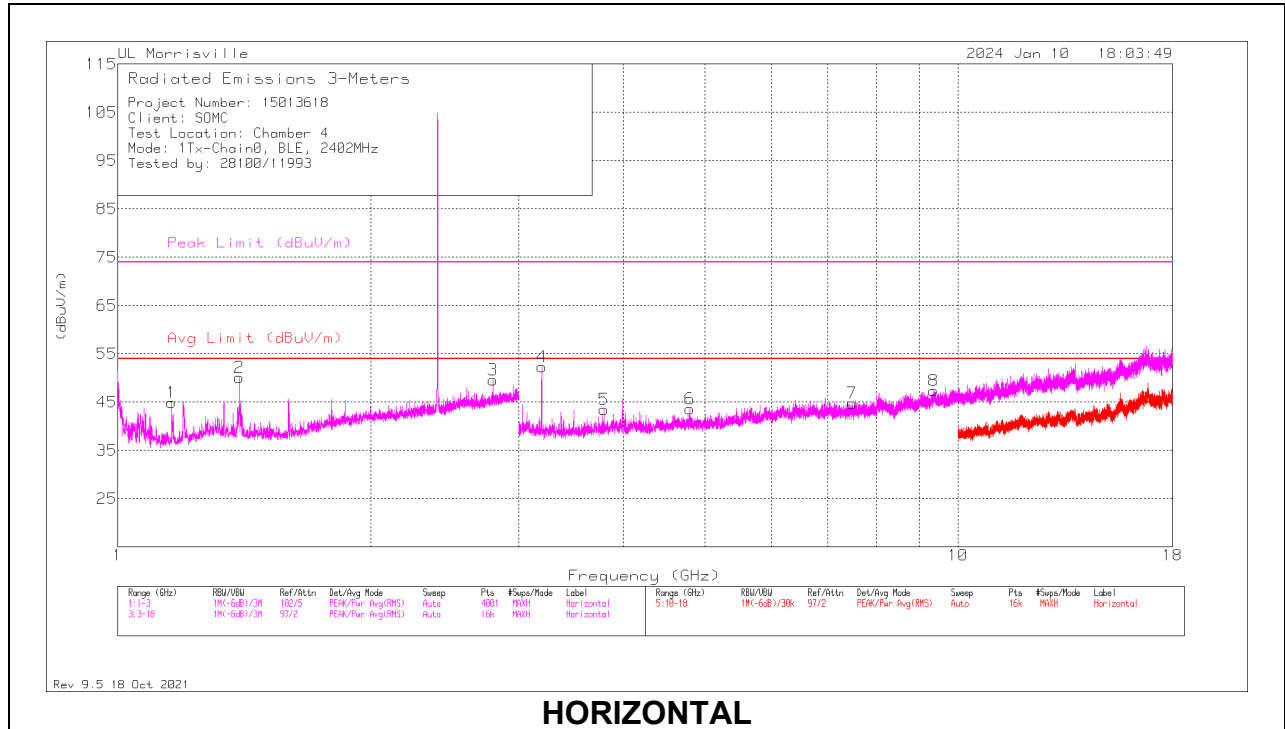
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.159 | 32.35 | Pk | 27.7 | -15.1 | 0 | 44.95 | 54 | -9.05 | 74 | -29.05 | 0-360 | 100 | H |
| 2 | *** 1.39678 | 45.02 | PK2 | 28.2 | -14.6 | 0 | 58.62 | - | - | 74 | -15.38 | 141 | 144 | H |
| | *** 1.39699 | 15.75 | ADV | 28.2 | -14.6 | .23 | 29.58 | 54 | -24.42 | - | - | 141 | 144 | H |
| 3 | *** 2.79666 | 34.9 | PK2 | 32.6 | -12.3 | 0 | 55.2 | - | - | 74 | -18.8 | 81 | 129 | H |
| | *** 2.79789 | 15.88 | ADV | 32.6 | -12.3 | .23 | 36.41 | 54 | -17.59 | - | - | 81 | 129 | H |
| 9 | *** 1.16517 | 40.47 | PK2 | 27.7 | -15 | 0 | 53.17 | - | - | 74 | -20.83 | 345 | 128 | V |
| | *** 1.16843 | 14.97 | ADV | 27.7 | -15 | .23 | 27.9 | 54 | -26.1 | - | - | 345 | 128 | V |
| 10 | *** 1.3905 | 32.85 | Pk | 28.2 | -14.5 | 0 | 46.55 | 54 | -7.45 | 74 | -27.45 | 0-360 | 200 | V |
| 11 | *** 2.79134 | 40.01 | PK2 | 32.6 | -12.4 | 0 | 60.21 | - | - | 74 | -13.79 | 334 | 261 | V |
| | *** 2.7899 | 15.76 | ADV | 32.6 | -12.4 | .23 | 36.19 | 54 | -17.81 | - | - | 334 | 261 | V |
| 5 | *** 3.78844 | 43.06 | Pk | 33.3 | -32.9 | 0 | 43.46 | 54 | -10.54 | 74 | -30.54 | 0-360 | 100 | H |
| 6 | *** 4.7925 | 41.18 | Pk | 34.1 | -31.6 | 0 | 43.68 | 54 | -10.32 | 74 | -30.32 | 0-360 | 100 | H |
| 7 | *** 7.47938 | 36.98 | Pk | 35.6 | -27.8 | 0 | 44.78 | 54 | -9.22 | 74 | -29.22 | 0-360 | 100 | H |
| 8 | *** 9.34875 | 36 | Pk | 36.5 | -25.1 | 0 | 47.4 | 54 | -6.6 | 74 | -26.6 | 0-360 | 100 | H |
| 13 | *** 3.72727 | 59.97 | PK2 | 33.1 | -32.7 | 0 | 60.37 | - | - | 74 | -13.63 | 306 | 228 | V |
| | *** 3.72716 | 30.84 | ADV | 33.1 | -32.7 | .23 | 31.47 | 54 | -22.53 | - | - | 306 | 228 | V |
| 14 | *** 4.7955 | 52.87 | PK2 | 34.1 | -31.7 | 0 | 55.27 | - | - | 74 | -18.73 | 1 | 215 | V |
| | *** 4.79484 | 28.82 | ADV | 34.1 | -31.7 | .23 | 31.45 | 54 | -22.55 | - | - | 1 | 215 | V |
| 15 | *** 7.45974 | 53.83 | PK2 | 35.7 | -27.9 | 0 | 61.63 | - | - | 74 | -12.37 | 356 | 123 | V |
| | *** 7.45859 | 26.2 | ADV | 35.7 | -28.1 | .23 | 34.03 | 54 | -19.97 | - | - | 356 | 123 | V |
| 16 | *** 9.30447 | 47.7 | PK2 | 36.4 | -25.3 | 0 | 58.8 | - | - | 74 | -15.2 | 35 | 127 | V |
| | *** 9.3049 | 24.23 | ADV | 36.4 | -25.4 | .23 | 35.46 | 54 | -18.54 | - | - | 35 | 127 | V |
| 12 | 3.195 | 50.03 | Pk | 32.8 | -34.5 | 0 | 48.33 | - | - | - | - | 0-360 | 200 | V |
| 4 | 3.19781 | 54.09 | Pk | 32.8 | -34.6 | 0 | 52.29 | - | - | - | - | 0-360 | 100 | H |
| 17 | 5.59031 | 47.85 | Pk | 34.6 | -31.1 | 0 | 51.35 | - | - | - | - | 0-360 | 200 | V |
| 18 | 6.38063 | 48.07 | Pk | 35.4 | -29 | 0 | 54.47 | - | - | - | - | 0-360 | 200 | V |
| 20 | 7.98 | 48.27 | Pk | 35.8 | -27.8 | 0 | 56.27 | - | - | - | - | 0-360 | 200 | V |
| 19 | 9.5775 | 40.16 | Pk | 36.8 | -25.1 | 0 | 51.86 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

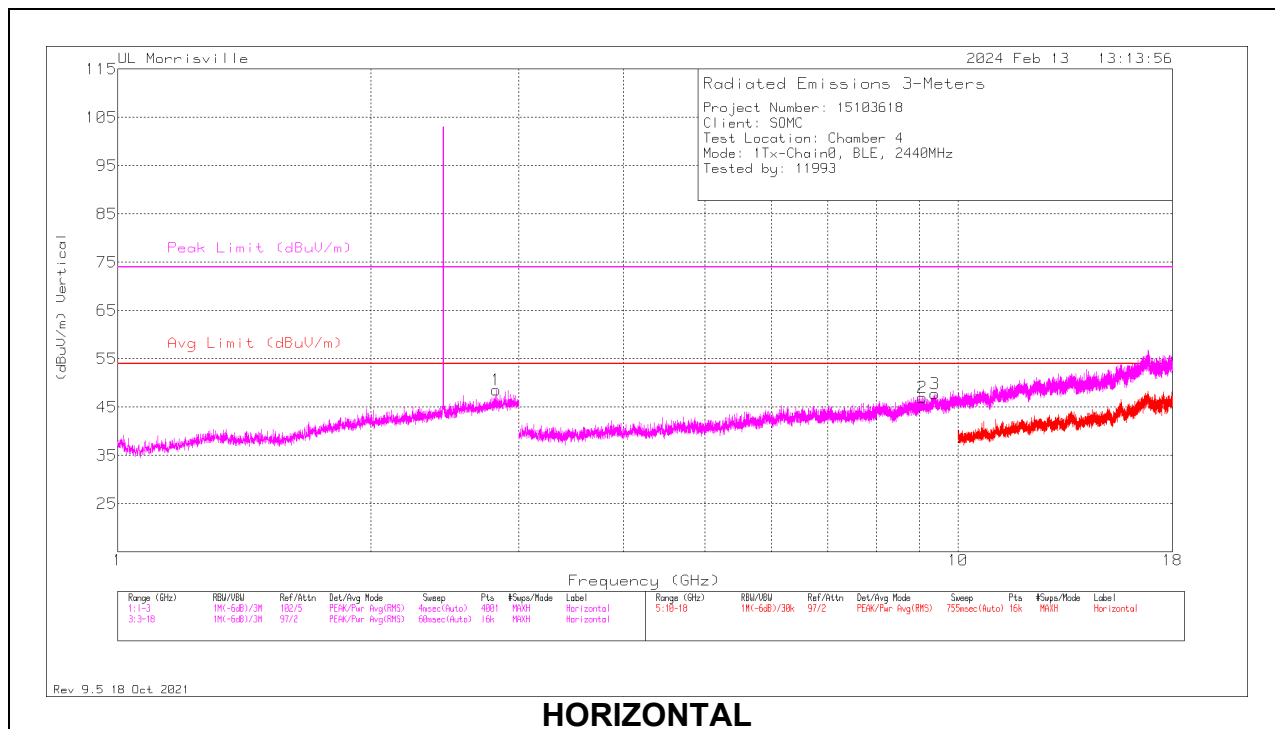
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

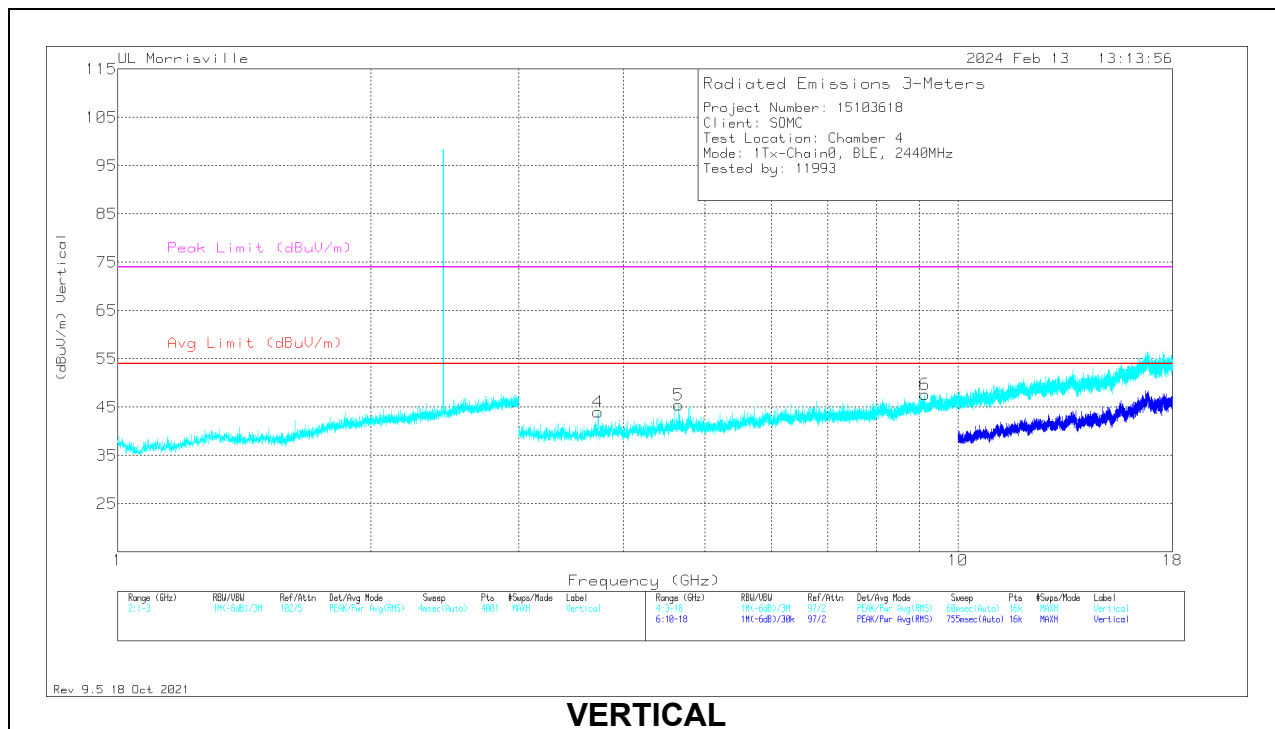
PK2 - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.82078 | 28.08 | PK2 | 32.4 | -12.4 | 0 | 48.08 | - | - | 74 | -25.92 | 127 | 287 | H |
| | * ** 2.82101 | 15.57 | ADV | 32.4 | -12.4 | .23 | 35.8 | 54 | -18.2 | - | - | 127 | 287 | H |
| 2 | * ** 9.07688 | 35.71 | Pk | 36.3 | -25 | 0 | 47.01 | 54 | -6.99 | 74 | -26.99 | 0-360 | 100 | H |
| 3 | * ** 9.38719 | 36.35 | Pk | 36.6 | -25.2 | 0 | 47.75 | 54 | -6.25 | 74 | -26.25 | 0-360 | 100 | H |
| 4 | * ** 3.72938 | 43.53 | Pk | 33.1 | -32.6 | 0 | 44.03 | 54 | -9.97 | 74 | -29.97 | 0-360 | 200 | V |
| 5 | * ** 4.65281 | 42.68 | Pk | 34.1 | -31.3 | 0 | 45.48 | 54 | -8.52 | 74 | -28.52 | 0-360 | 200 | V |
| 6 | * ** 9.13219 | 36.48 | Pk | 36.3 | -25.1 | 0 | 47.68 | 54 | -6.32 | 74 | -26.32 | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

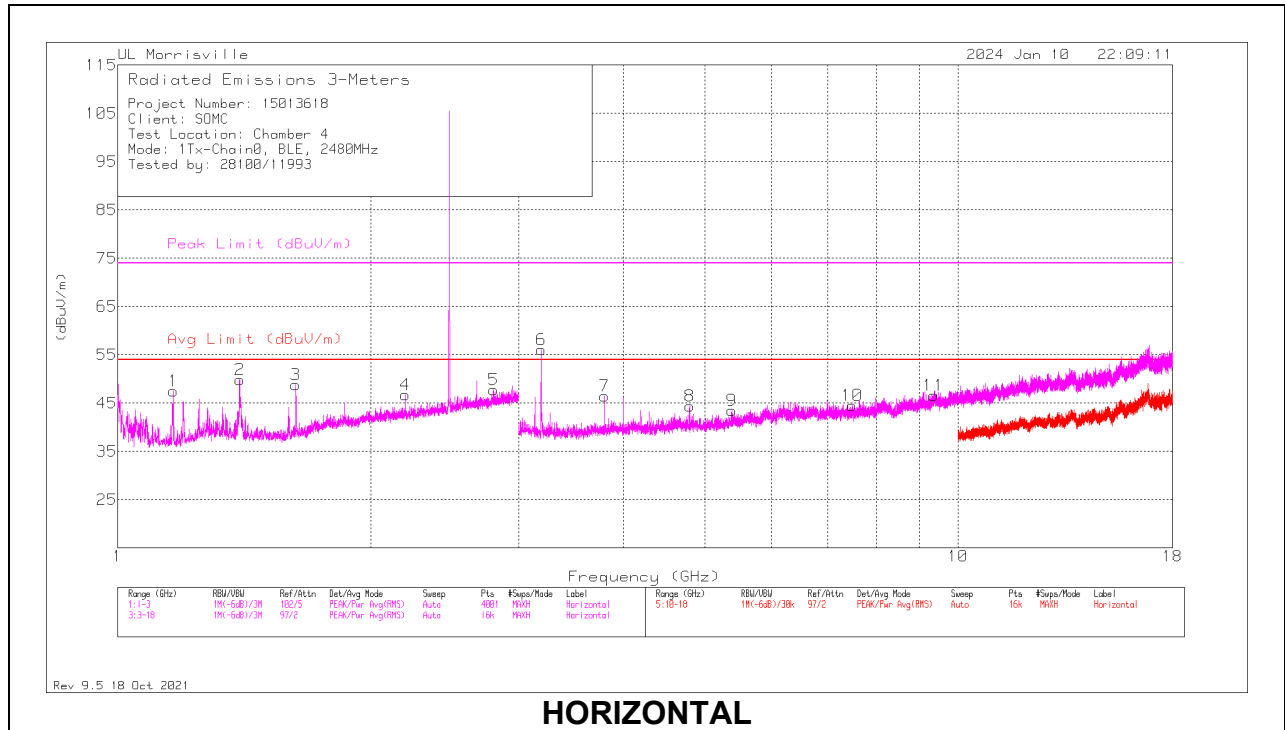
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

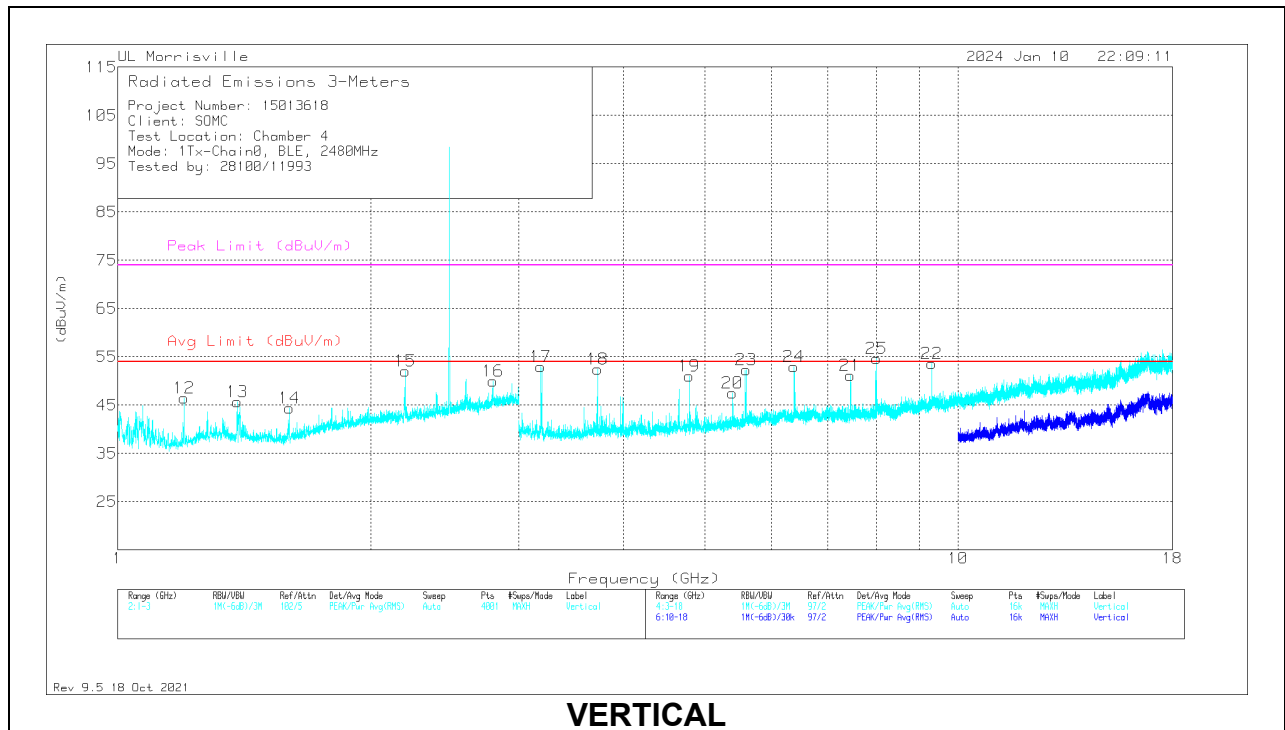
PK2 - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 1.164 | 34.83 | Pk | 27.7 | -15 | 0 | 47.53 | 54 | -6.47 | 74 | -26.47 | 0-360 | 100 | H |
| 2 | *** 1.39801 | 45.16 | PK2 | 28.2 | -14.6 | 0 | 58.76 | - | - | 74 | -15.24 | 44 | 112 | H |
| | *** 1.39663 | 16 | ADV | 28.2 | -14.5 | .23 | 29.93 | 54 | -24.07 | - | - | 44 | 112 | H |
| 5 | *** 2.802 | 27.43 | Pk | 32.6 | -12.3 | 0 | 47.73 | 54 | -6.27 | 74 | -26.27 | 0-360 | 100 | H |
| 12 | *** 1.199 | 33.58 | Pk | 28 | -15.1 | 0 | 46.48 | 54 | -7.52 | 74 | -27.52 | 0-360 | 200 | V |
| 13 | *** 1.3875 | 32.16 | Pk | 28.2 | -14.6 | 0 | 45.76 | 54 | -8.24 | 74 | -28.24 | 0-360 | 200 | V |
| 14 | *** 1.6 | 30.63 | Pk | 28 | -14.2 | 0 | 44.43 | 54 | -9.57 | 74 | -29.57 | 0-360 | 200 | V |
| 16 | *** 2.79629 | 38.96 | PK2 | 32.6 | -12.3 | 0 | 59.26 | - | - | 74 | -14.74 | 26 | 107 | V |
| | *** 2.79862 | 15.67 | ADV | 32.6 | -12.3 | .23 | 36.2 | 54 | -17.8 | - | - | 26 | 107 | V |
| 7 | *** 3.79594 | 46.14 | Pk | 33.3 | -33 | 0 | 46.44 | 54 | -7.56 | 74 | -27.56 | 0-360 | 100 | H |
| 8 | *** 4.79531 | 42.06 | Pk | 34.1 | -31.7 | 0 | 44.46 | 54 | -9.54 | 74 | -29.54 | 0-360 | 100 | H |
| 9 | *** 5.38406 | 39.77 | Pk | 34.5 | -30.8 | 0 | 43.47 | 54 | -10.53 | 74 | -30.53 | 0-360 | 100 | H |
| 10 | *** 7.47938 | 36.73 | Pk | 35.6 | -27.8 | 0 | 44.53 | 54 | -9.47 | 74 | -29.47 | 0-360 | 100 | H |
| 11 | *** 9.35531 | 34.98 | Pk | 36.5 | -24.9 | 0 | 46.58 | 54 | -7.42 | 74 | -27.42 | 0-360 | 100 | H |
| 18 | *** 3.727 | 60.8 | PK2 | 33.1 | -32.7 | 0 | 61.2 | - | - | 74 | -12.8 | 303 | 206 | V |
| | *** 3.72709 | 30.8 | ADV | 33.1 | -32.7 | .23 | 31.43 | 54 | -22.57 | - | - | 303 | 206 | V |
| 19 | *** 4.78943 | 51.93 | PK2 | 34.1 | -31.4 | 0 | 54.63 | - | - | 74 | -19.37 | 0 | 205 | V |
| | *** 4.78888 | 28.87 | ADV | 34.1 | -31.5 | .23 | 31.7 | 54 | -22.3 | - | - | 0 | 205 | V |
| 20 | *** 5.39438 | 43.22 | Pk | 34.6 | -30.3 | 0 | 47.52 | 54 | -6.48 | 74 | -26.48 | 0-360 | 200 | V |
| 21 | *** 7.45 | 54.81 | PK2 | 35.7 | -27.8 | 0 | 62.71 | - | - | 74 | -11.29 | 356 | 140 | V |
| | *** 7.45056 | 26.75 | ADV | 35.7 | -27.9 | .23 | 34.78 | 54 | -19.22 | - | - | 356 | 140 | V |
| 22 | *** 9.31286 | 47.65 | PK2 | 36.4 | -25.1 | 0 | 58.95 | - | - | 74 | -15.05 | 28 | 198 | V |
| | *** 9.31168 | 24.23 | ADV | 36.4 | -25 | .23 | 35.86 | 54 | -18.14 | - | - | 28 | 198 | V |
| 3 | 1.6295 | 34.73 | Pk | 28.5 | -14.4 | 0 | 48.83 | - | - | - | - | 0-360 | 100 | H |
| 15 | 2.1975 | 33.97 | Pk | 31.6 | -13.5 | 0 | 52.07 | - | - | - | - | 0-360 | 200 | V |
| 4 | 2.1985 | 28.48 | Pk | 31.6 | -13.4 | 0 | 46.68 | - | - | - | - | 0-360 | 100 | H |
| 17 | 3.18844 | 54.63 | Pk | 32.8 | -34.5 | 0 | 52.93 | - | - | - | - | 0-360 | 200 | V |
| 6 | 3.19031 | 57.7 | Pk | 32.8 | -34.4 | 0 | 56.1 | - | - | - | - | 0-360 | 100 | H |
| 23 | 5.59406 | 48.3 | Pk | 34.6 | -30.6 | 0 | 52.3 | - | - | - | - | 0-360 | 200 | V |
| 24 | 6.38344 | 46.5 | Pk | 35.4 | -28.9 | 0 | 53 | - | - | - | - | 0-360 | 200 | V |
| 25 | 7.99688 | 46.3 | Pk | 35.8 | -27.5 | 0 | 54.6 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

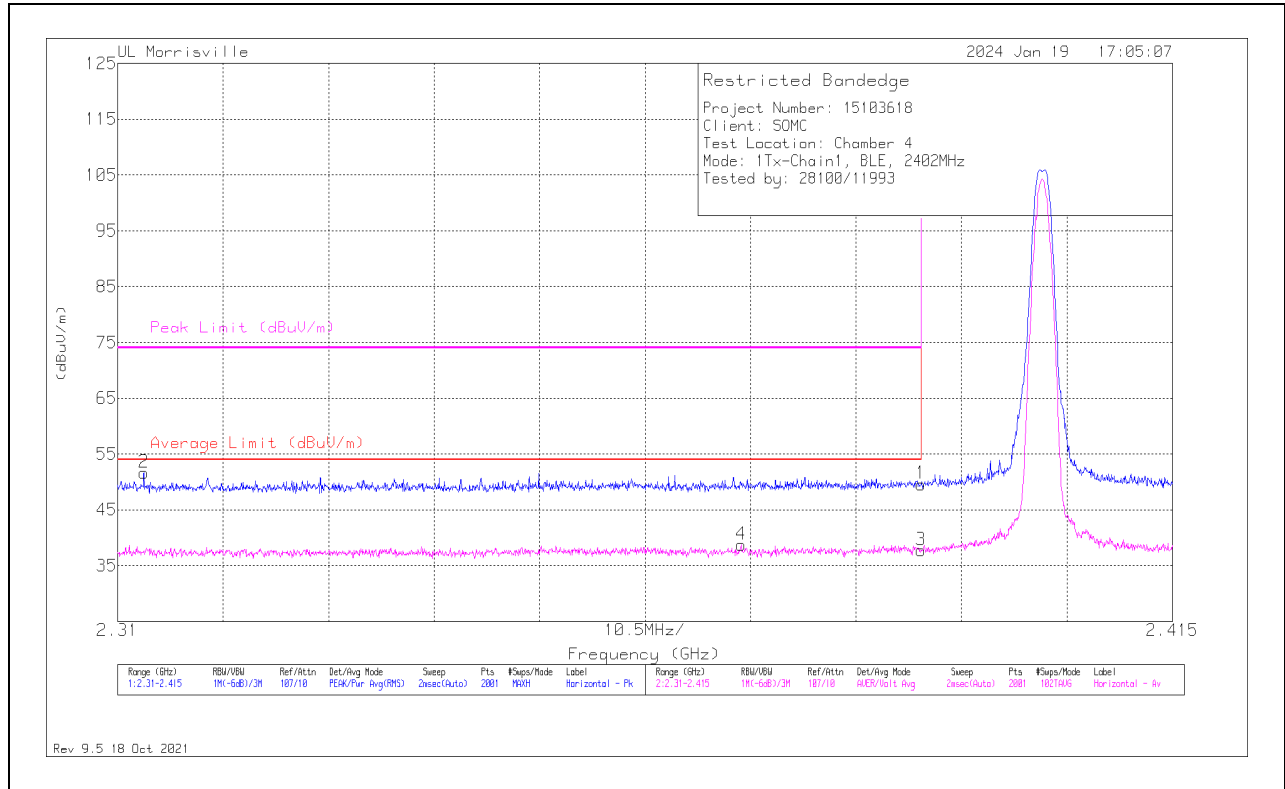
PK2 - Maximum Peak

ADV - Linear Voltage Average

Chain 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.38996 | 30.81 | Pk | 32 | -13.2 | 0 | 49.61 | - | - | 74 | -24.39 | 69 | 102 | H |
| 2 | * ** 2.31263 | 32.81 | Pk | 32 | -13.2 | 0 | 51.61 | - | - | 74 | -22.39 | 69 | 102 | H |
| 3 | * ** 2.38996 | 18.69 | ADV | 32 | -13.2 | .23 | 37.72 | 54 | -16.28 | - | - | 69 | 102 | H |
| 4 | * ** 2.37206 | 19.78 | ADV | 31.9 | -13.2 | .23 | 38.71 | 54 | -15.29 | - | - | 69 | 102 | H |

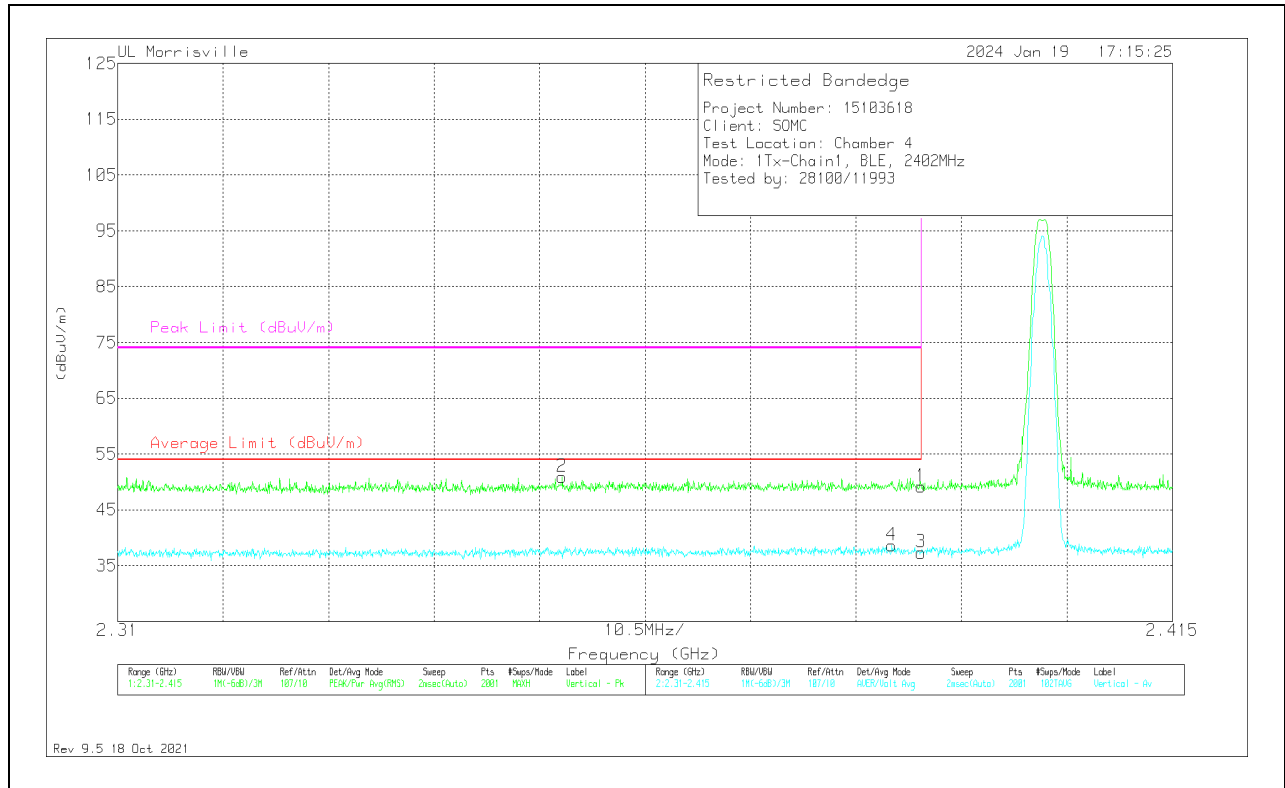
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

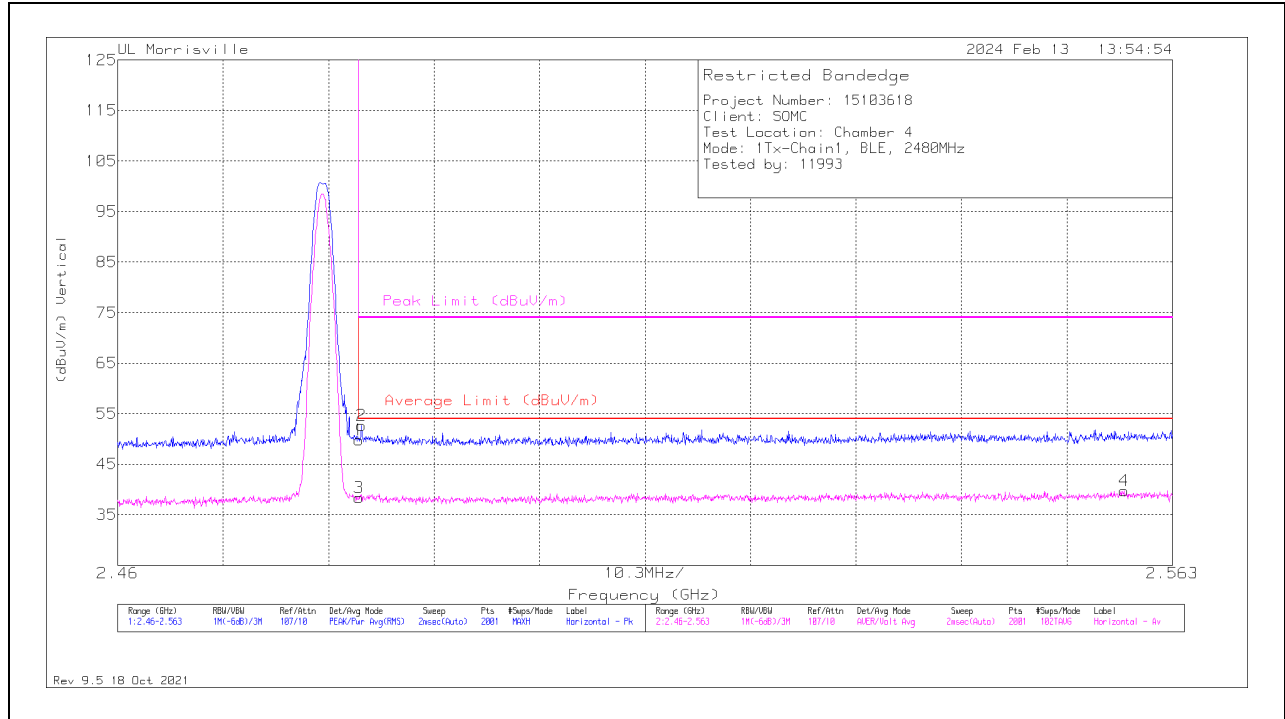


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.38996 | 30.36 | Pk | 32 | -13.2 | 0 | 49.16 | - | - | 74 | -24.84 | 69 | 102 | V |
| 2 | * ** 2.35426 | 32.15 | Pk | 31.8 | -13 | 0 | 50.95 | - | - | 74 | -23.05 | 69 | 102 | V |
| 3 | * ** 2.38996 | 18.29 | ADV | 32 | -13.2 | .23 | 37.32 | 54 | -16.68 | - | - | 69 | 102 | V |
| 4 | * ** 2.38707 | 19.45 | ADV | 32 | -13.1 | .23 | 38.58 | 54 | -15.42 | - | - | 69 | 102 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.48354 | 30.42 | Pk | 32.3 | -12.9 | 0 | 49.82 | - | - | 74 | -24.18 | 303 | 282 | H |
| 2 | * ** 2.48379 | 33.22 | Pk | 32.3 | -12.9 | 0 | 52.62 | - | - | 74 | -21.38 | 303 | 282 | H |
| 3 | * ** 2.48354 | 18.79 | ADV | 32.3 | -12.9 | .23 | 38.42 | 54 | -15.58 | - | - | 303 | 282 | H |
| 4 | ** 2.55826 | 19.68 | ADV | 32.5 | -12.7 | .23 | 39.71 | 54 | -14.29 | - | - | 303 | 282 | H |

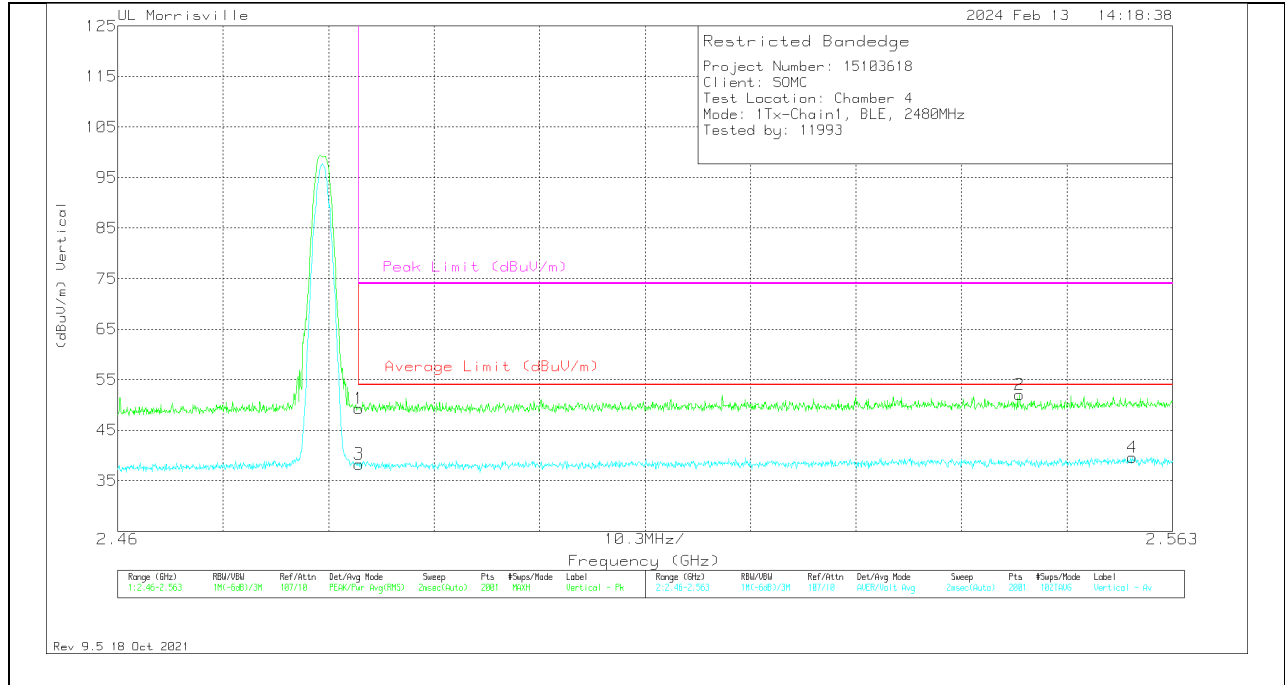
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.48354 | 29.91 | Pk | 32.3 | -12.9 | 0 | 49.31 | - | - | 74 | -24.69 | 338 | 283 | V |
| 2 | ** 2.54807 | 32.62 | Pk | 32.4 | -13 | 0 | 52.02 | - | - | 74 | -21.98 | 338 | 283 | V |
| 3 | * ** 2.48354 | 18.68 | ADV | 32.3 | -12.9 | .23 | 38.31 | 54 | -15.69 | - | - | 338 | 283 | V |
| 4 | ** 2.55909 | 19.63 | ADV | 32.5 | -12.7 | .23 | 39.66 | 54 | -14.34 | - | - | 338 | 283 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

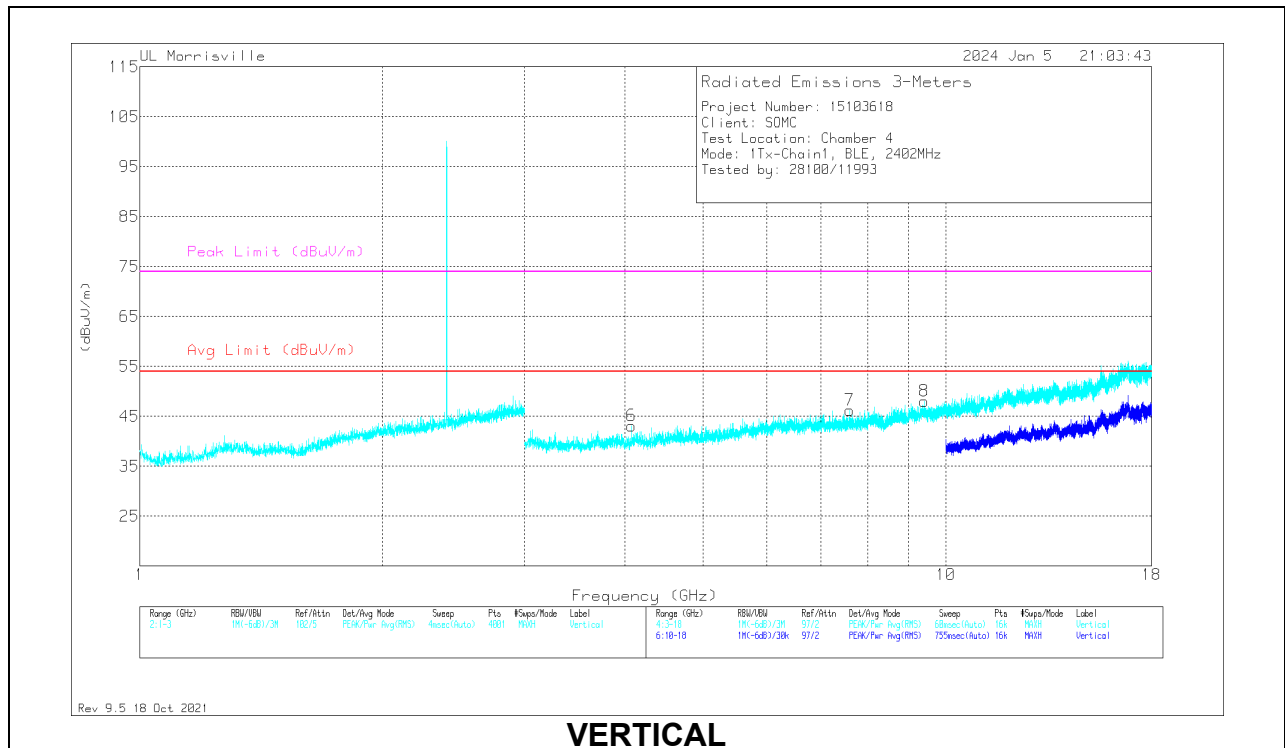
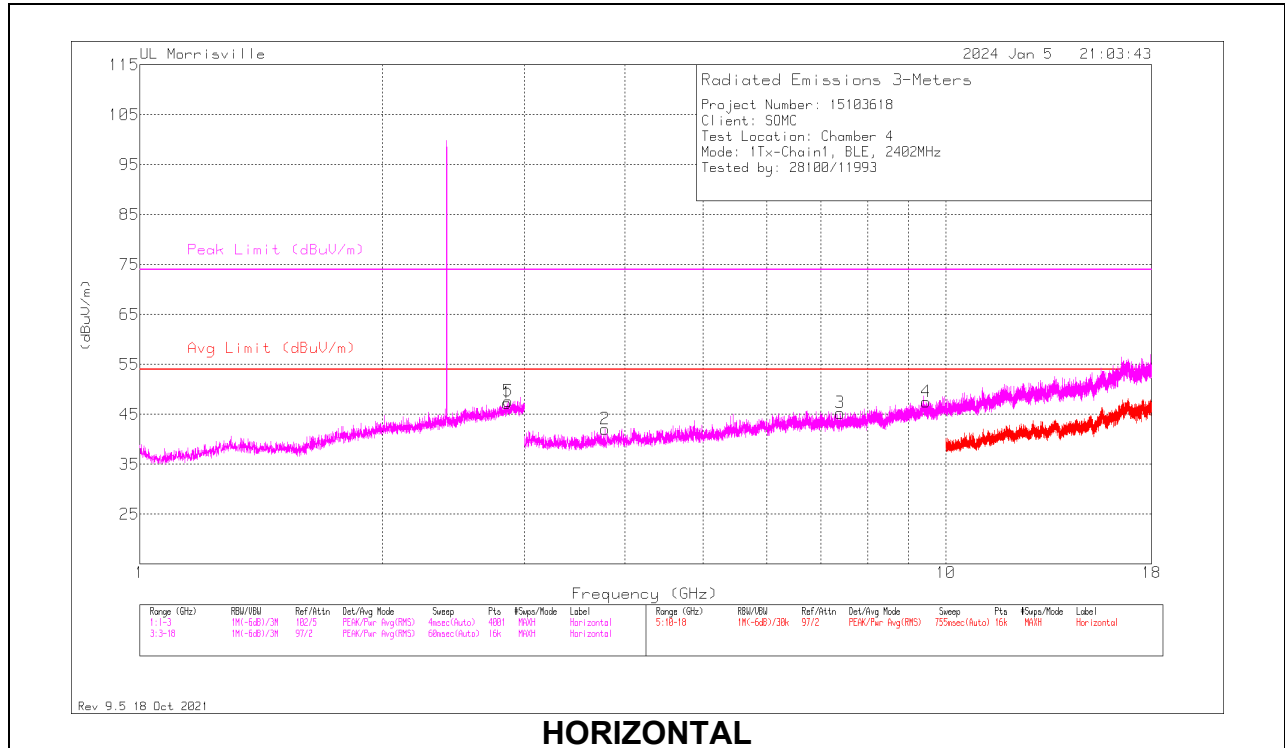
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.8565 | 27.04 | Pk | 32.4 | -12.2 | 0 | 47.24 | 54 | -6.76 | 74 | -26.76 | 0-360 | 100 | H |
| 5 | *** 2.8665 | 27.39 | Pk | 32.4 | -12.2 | 0 | 47.59 | 54 | -6.41 | 74 | -26.41 | 0-360 | 100 | H |
| 2 | *** 3.77906 | 41.63 | Pk | 33.2 | -32.8 | 0 | 42.03 | 54 | -11.97 | 74 | -31.97 | 0-360 | 100 | H |
| 3 | *** 7.39875 | 37.25 | Pk | 35.6 | -27.6 | 0 | 45.25 | 54 | -8.75 | 74 | -28.75 | 0-360 | 100 | H |
| 4 | *** 9.45469 | 36.69 | Pk | 36.7 | -25.9 | 0 | 47.49 | 54 | -6.51 | 74 | -26.51 | 0-360 | 100 | H |
| 6 | *** 4.07531 | 41.96 | Pk | 33.4 | -32.3 | 0 | 43.06 | 54 | -10.94 | 74 | -30.94 | 0-360 | 200 | V |
| 7 | *** 7.59563 | 38.14 | Pk | 35.7 | -27.6 | 0 | 46.24 | 54 | -7.76 | 74 | -27.76 | 0-360 | 200 | V |
| 8 | *** 9.39805 | 37.76 | PK2 | 36.6 | -25.7 | 0 | 48.66 | - | - | 74 | -25.34 | 8 | 169 | V |
| | *** 9.39765 | 24.97 | ADV | 36.6 | -25.6 | .23 | 36.2 | 54 | -17.8 | - | - | 8 | 169 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

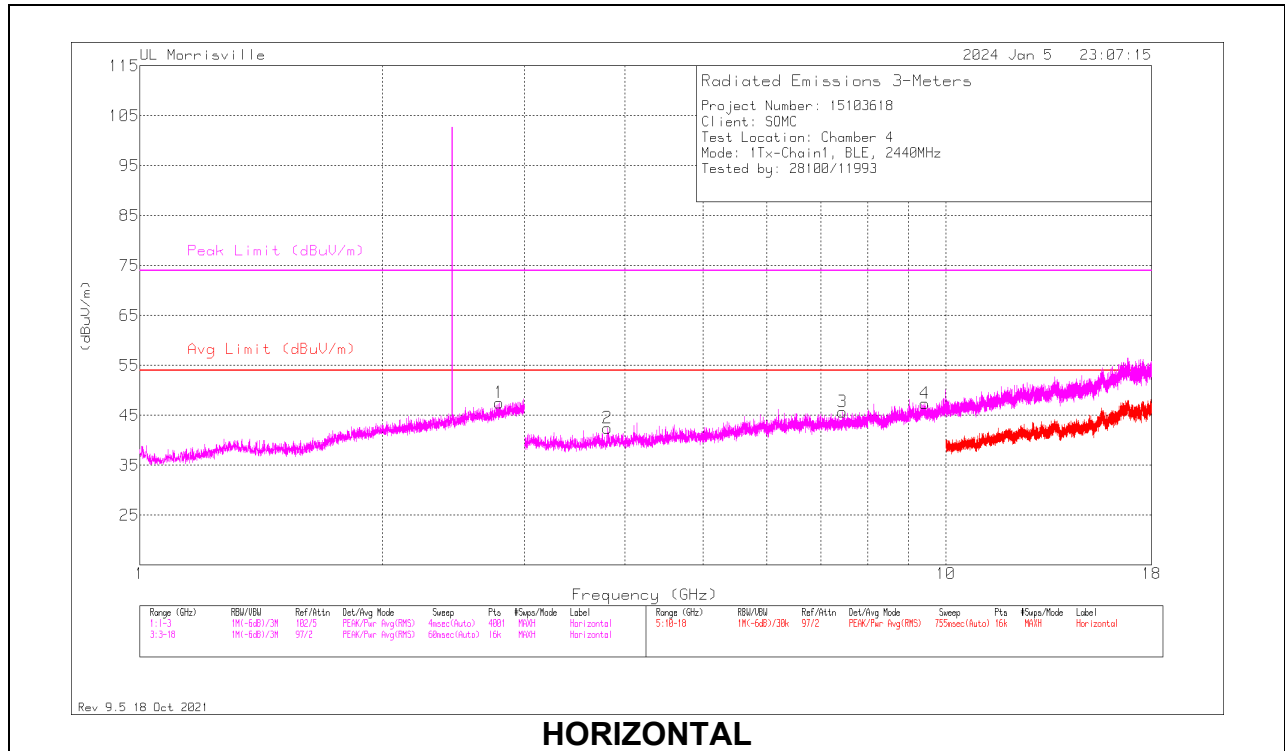
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

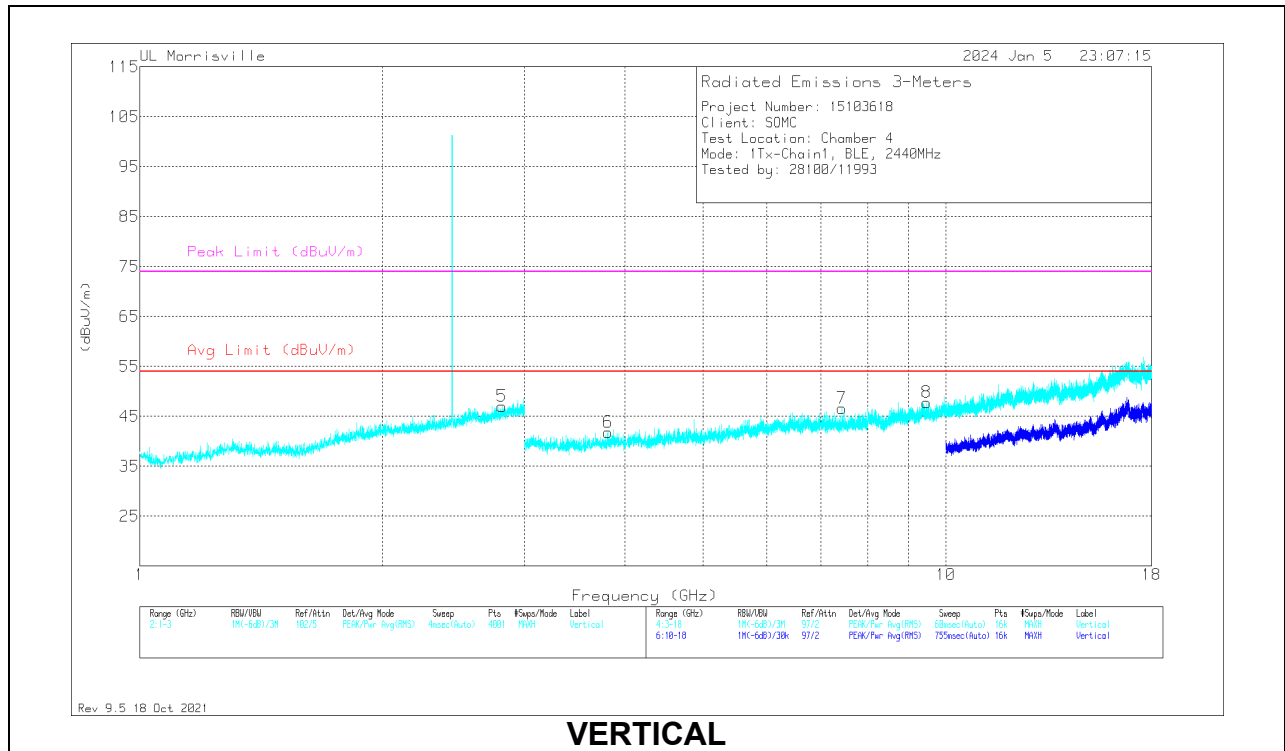
PK2 - KDB558074 Method: Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

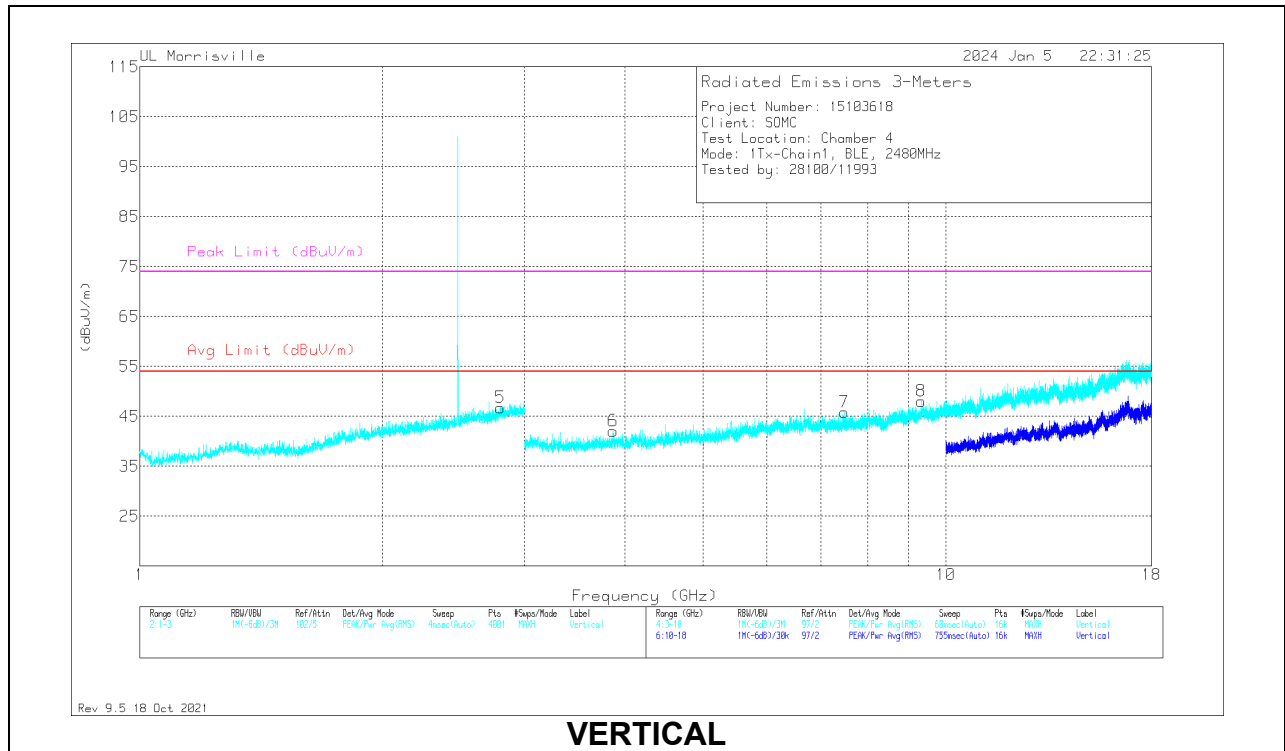
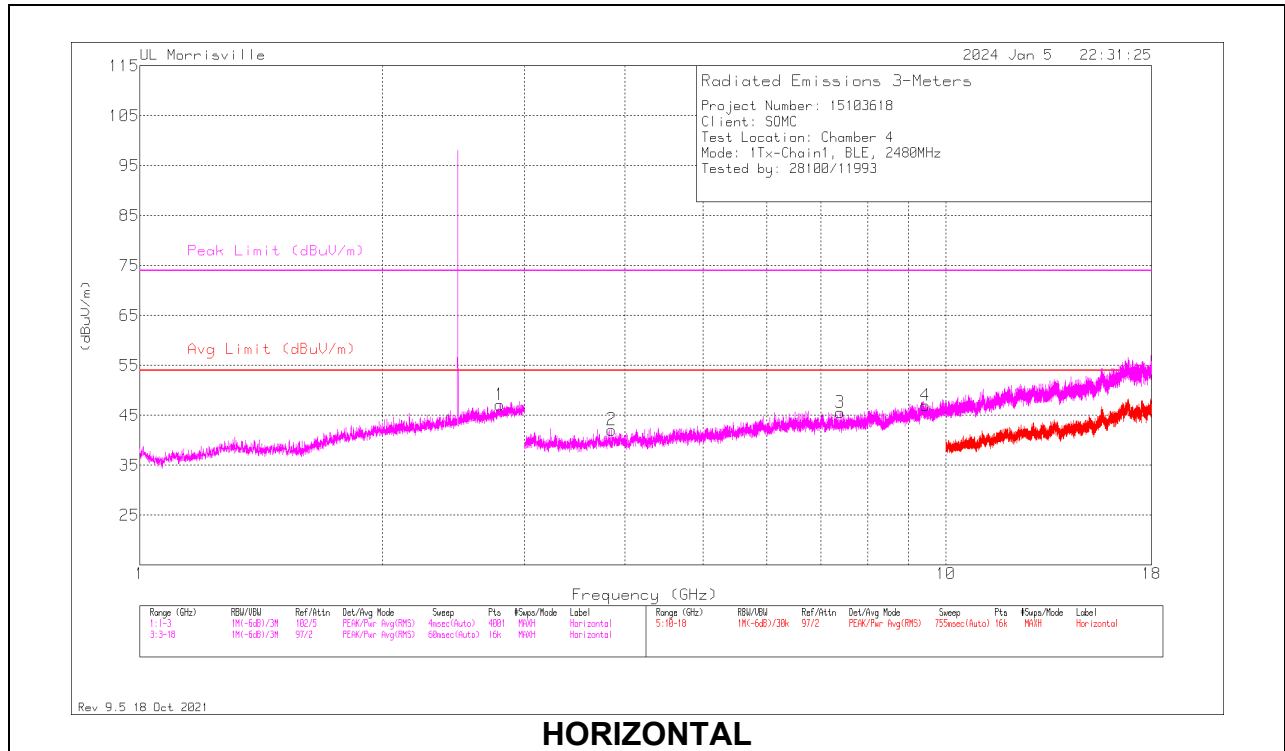
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | *** 2.791 | 27.29 | Pk | 32.6 | -12.4 | 47.49 | 54 | -6.51 | 74 | -26.51 | 0-360 | 100 | H |
| 5 | *** 2.814 | 26.65 | Pk | 32.5 | -12.2 | 46.95 | 54 | -7.05 | 74 | -27.05 | 0-360 | 200 | V |
| 2 | *** 3.80625 | 42.06 | Pk | 33.3 | -32.9 | 42.46 | 54 | -11.54 | 74 | -31.54 | 0-360 | 100 | H |
| 3 | *** 7.44563 | 37.91 | Pk | 35.7 | -27.9 | 45.71 | 54 | -8.29 | 74 | -28.29 | 0-360 | 100 | H |
| 4 | *** 9.41344 | 36.25 | Pk | 36.6 | -25.5 | 47.35 | 54 | -6.65 | 74 | -26.65 | 0-360 | 100 | H |
| 6 | *** 3.80813 | 41.25 | Pk | 33.3 | -32.8 | 41.75 | 54 | -12.25 | 74 | -32.25 | 0-360 | 200 | V |
| 7 | *** 7.43438 | 38.82 | Pk | 35.7 | -27.9 | 46.62 | 54 | -7.38 | 74 | -27.38 | 0-360 | 200 | V |
| 8 | *** 9.46406 | 36.94 | Pk | 36.7 | -25.9 | 47.74 | 54 | -6.26 | 74 | -26.26 | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 89509 ACF (dB/m) | Gain/Loss (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * ** 2.799 | 26.83 | Pk | 32.6 | -12.3 | 0 | 47.13 | 54 | -6.87 | 74 | -26.87 | 0-360 | 100 | H |
| 5 | * ** 2.8005 | 26.48 | Pk | 32.6 | -12.3 | 0 | 46.78 | 54 | -7.22 | 74 | -27.22 | 0-360 | 200 | V |
| 2 | * ** 3.84844 | 41.93 | Pk | 33.4 | -33.2 | 0 | 42.13 | 54 | -11.87 | 74 | -31.87 | 0-360 | 100 | H |
| 3 | * ** 7.39688 | 37.48 | Pk | 35.6 | -27.5 | 0 | 45.58 | 54 | -8.42 | 74 | -28.42 | 0-360 | 100 | H |
| 4 | * ** 9.44156 | 35.62 | Pk | 36.7 | -25.3 | 0 | 47.02 | 54 | -6.98 | 74 | -26.98 | 0-360 | 100 | H |
| 6 | * ** 3.86625 | 41.22 | Pk | 33.4 | -32.5 | 0 | 42.12 | 54 | -11.88 | 74 | -31.88 | 0-360 | 200 | V |
| 7 | * ** 7.48406 | 38.24 | Pk | 35.6 | -28 | 0 | 45.84 | 54 | -8.16 | 74 | -28.16 | 0-360 | 200 | V |
| 8 | * ** 9.32105 | 36.8 | PK2 | 36.4 | -25 | 0 | 48.2 | - | - | 74 | -25.8 | 76 | 123 | V |
| | * ** 9.32184 | 24.46 | ADV | 36.4 | -24.9 | .23 | 36.19 | 54 | -17.81 | - | - | 76 | 123 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

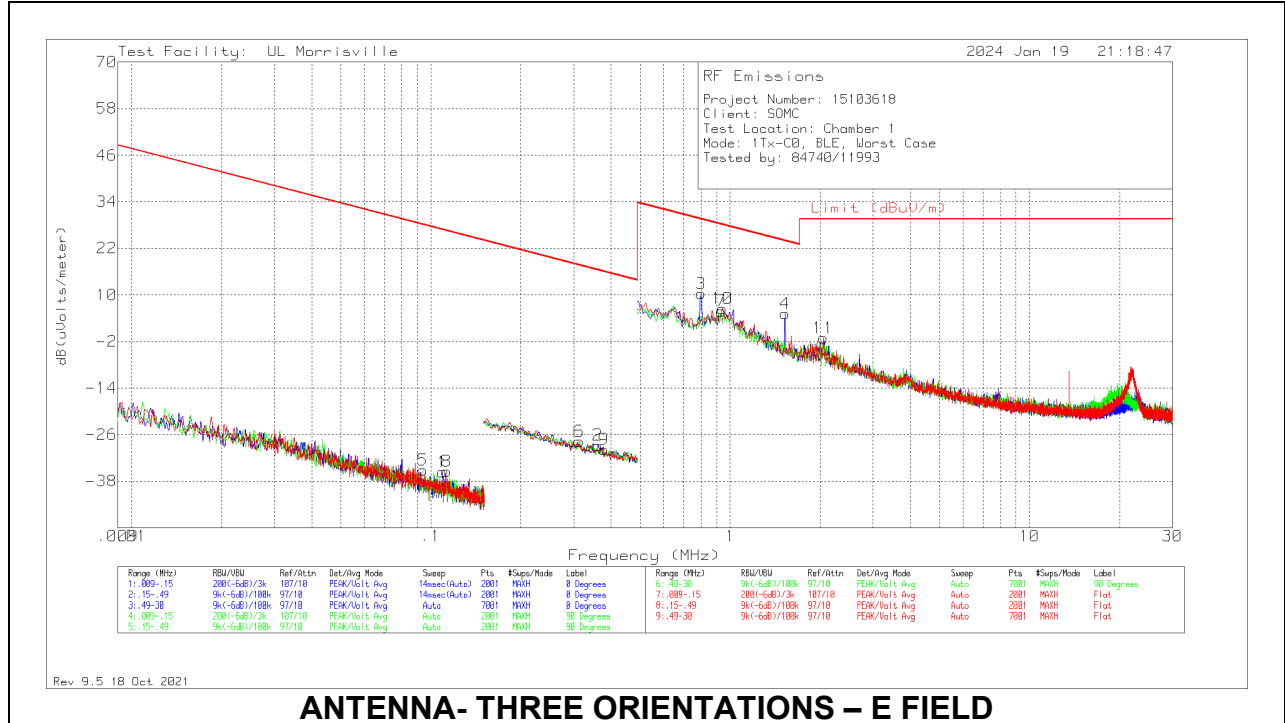
PK2 - Maximum Peak

ADV - Linear Voltage Average

10.3. WORST CASE BELOW 30MHZ

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION CHAIN 0)

Note: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).

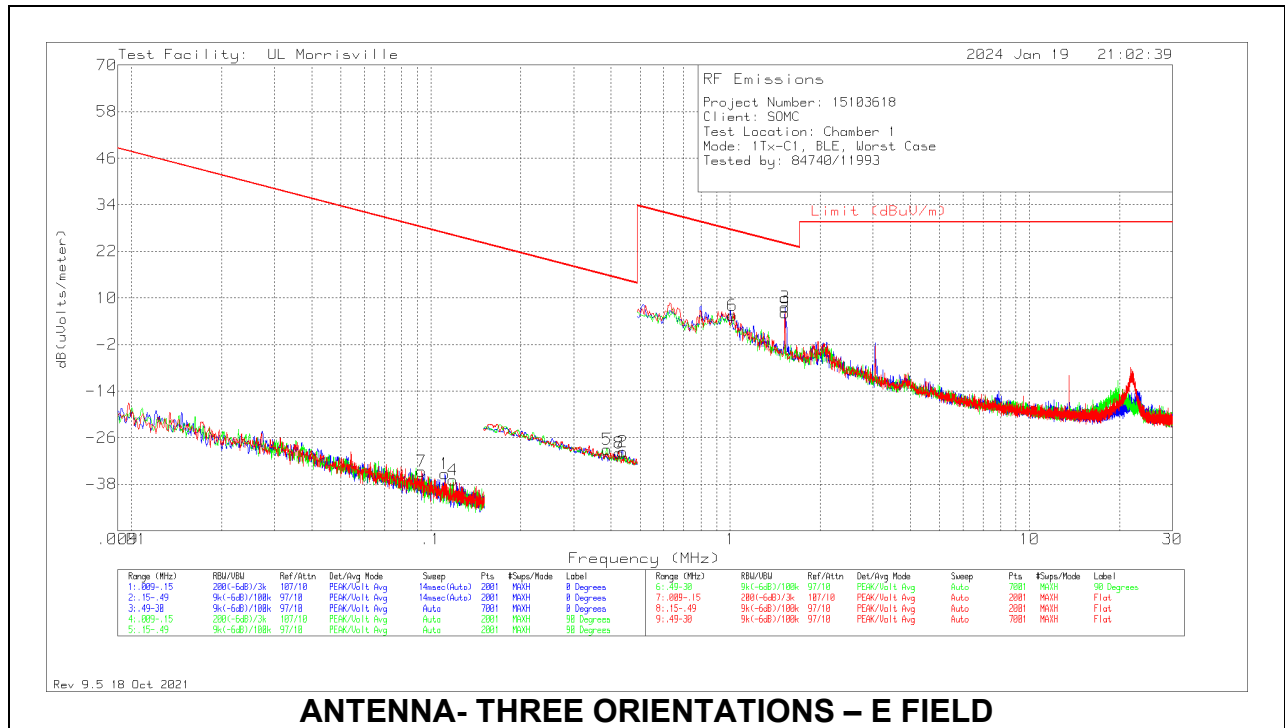


ANTENNA- THREE ORIENTATIONS – E FIELD

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 65682 (dBuV/m) | Gain/Loss (dB) | Dist. Corr. Factor (dB) | Corrected Reading dB(uVolts/meter) | QP/AV Limit (dBuV/m) | PK Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Loop Angle |
|--------|-----------------|----------------------|-----|----------------|----------------|-------------------------|------------------------------------|----------------------|-------------------|-------------|----------------|------------|
| 1 | .10925 | 34 | Pk | 10.2 | .1 | -80 | -35.7 | 26.84 | 46.84 | -62.54 | 0-360 | 0 degs |
| 2 | .36114 | 41.12 | Pk | 10 | .1 | -80 | -28.78 | 16.45 | 36.45 | -45.23 | 0-360 | 0 degs |
| 3 | .79777 | 39.99 | Pk | 10.2 | .1 | -40 | 10.29 | 29.57 | - | -19.28 | 0-360 | 0 degs |
| 4 | 1.52292 | 34.65 | Pk | 10.4 | .2 | -40 | 5.25 | 23.95 | - | -18.7 | 0-360 | 0 degs |
| 5 | .09406 | 34.2 | Pk | 10.5 | .1 | -80 | -35.2 | 28.14 | 48.14 | -63.34 | 0-360 | 90 degs |
| 6 | .31312 | 42.2 | Pk | 10 | .1 | -80 | -27.7 | 17.69 | 37.69 | -45.39 | 0-360 | 90 degs |
| 7 | .93268 | 35.32 | Pk | 10.3 | .2 | -40 | 5.82 | 28.21 | - | -22.39 | 0-360 | 90 degs |
| 8 | .11309 | 34.23 | Pk | 10.2 | .1 | -80 | -35.47 | 26.54 | - | -62.01 | 0-360 | Flat |
| 9 | .37797 | 40.06 | Pk | 10 | .1 | -80 | -29.84 | 16.05 | 36.05 | -45.89 | 0-360 | Flat |
| 10 | .94111 | 35.9 | Pk | 10.3 | .2 | -40 | 6.4 | 28.13 | - | -21.73 | 0-360 | Flat |
| 11 | 2.04992 | 28.32 | Pk | 10.4 | .2 | -40 | -1.08 | 29.54 | - | -30.62 | 0-360 | Flat |

Pk - Peak detector

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION CHAIN 1)



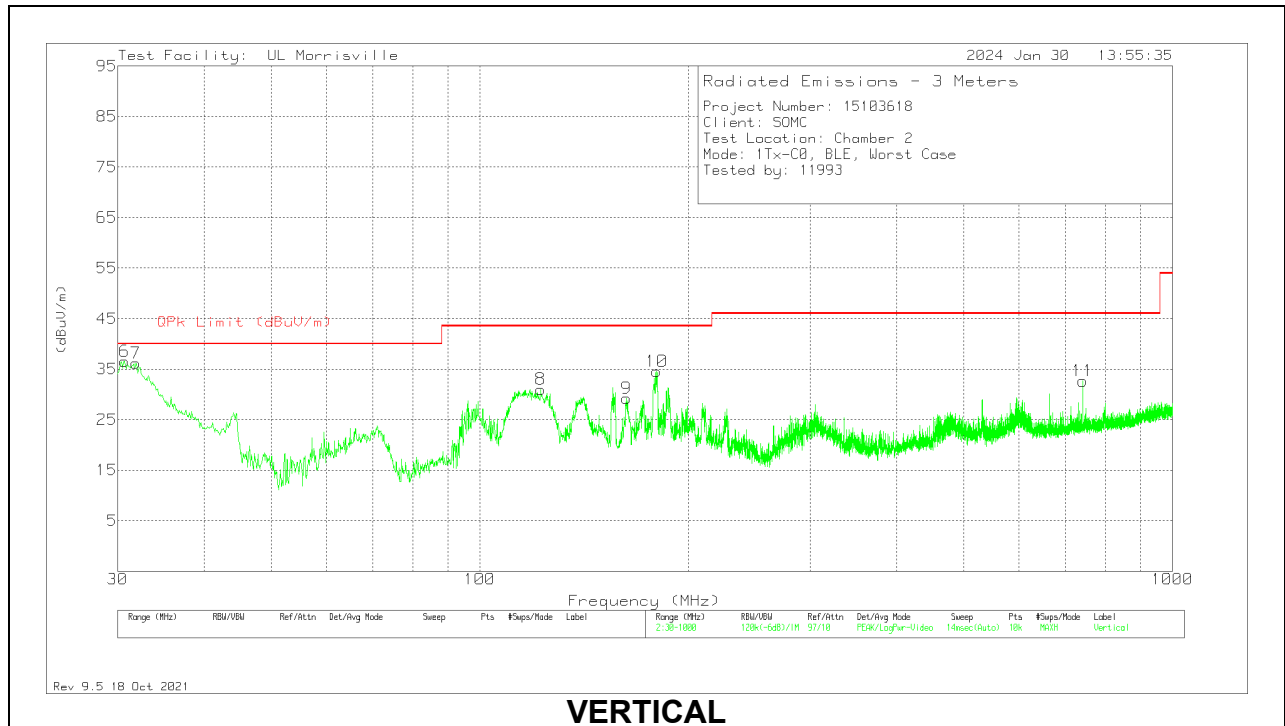
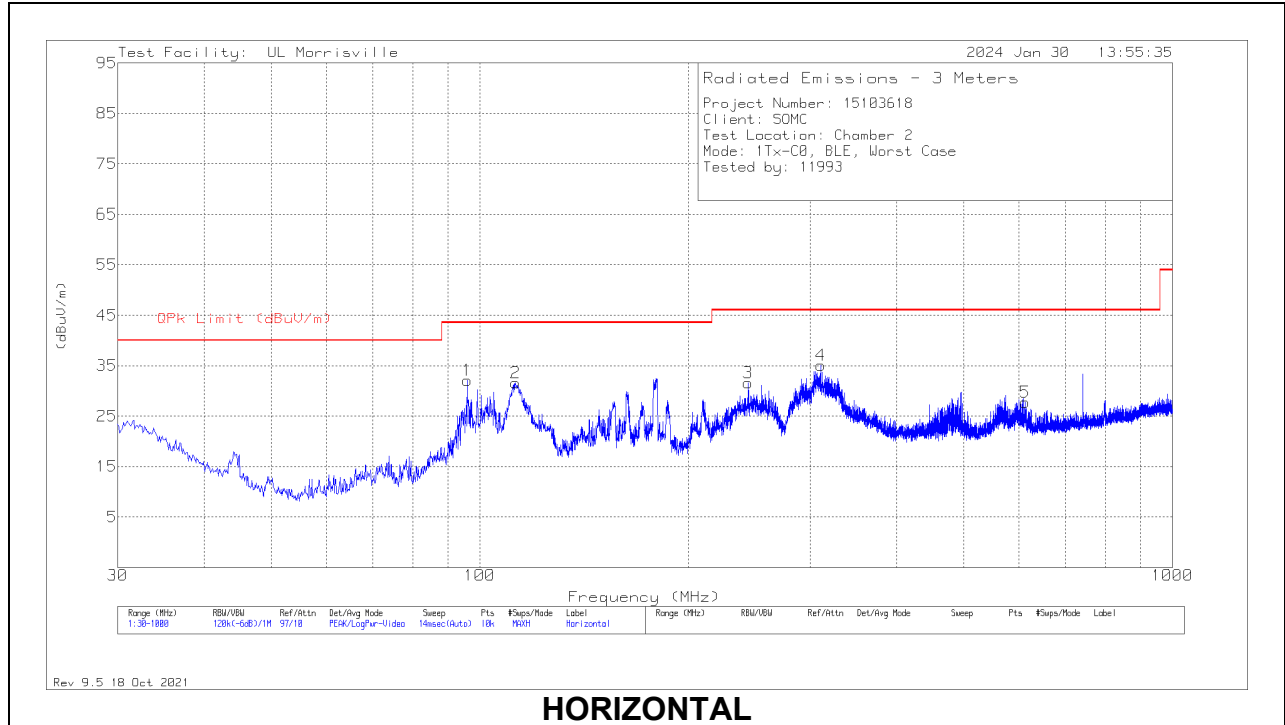
ANTENNA- THREE ORIENTATIONS – E FIELD

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 65682 (dBuV/m) | Gain/Loss (dB) | Dist. Corr. Factor (dB) | Corrected Reading dB(uVolts/meter) | QP/AV Limit (dBuV/m) | PK Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Loop Angle |
|--------|-----------------|----------------------|-----|----------------|----------------|-------------------------|------------------------------------|----------------------|-------------------|-------------|----------------|------------|
| 1 | .1116 | 34.4 | Pk | 10.2 | .1 | -80 | -35.3 | 26.65 | 46.65 | -61.95 | 0-360 | 0 degs |
| 2 | .43713 | 40.17 | Pk | 10 | .1 | -80 | -29.73 | 14.79 | 34.79 | -44.52 | 0-360 | 0 degs |
| 3 | 1.52292 | 37.03 | Pk | 10.4 | .2 | -40 | 7.63 | 23.95 | - | -16.32 | 0-360 | 0 degs |
| 4 | .1187 | 32.84 | Pk | 10.2 | .1 | -80 | -36.86 | 26.12 | 46.12 | -62.98 | 0-360 | 90 degs |
| 5 | .38868 | 40.93 | Pk | 10 | .1 | -80 | -28.97 | 15.81 | 35.81 | -44.78 | 0-360 | 90 degs |
| 6 | 1.017 | 34.92 | Pk | 10.4 | .2 | -40 | 5.52 | 27.46 | - | -21.94 | 0-360 | 90 degs |
| 7 | .09335 | 34.7 | Pk | 10.5 | .1 | -80 | -34.7 | 28.2 | 48.2 | -62.9 | 0-360 | Flat |
| 8 | .42574 | 39.85 | Pk | 10 | .1 | -80 | -30.05 | 15.02 | 35.02 | -45.07 | 0-360 | Flat |
| 9 | 1.52292 | 35.62 | Pk | 10.4 | .2 | -40 | 6.22 | 23.95 | - | -17.73 | 0-360 | Flat |

Pk - Peak detector

10.4. WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION CHAIN 0)

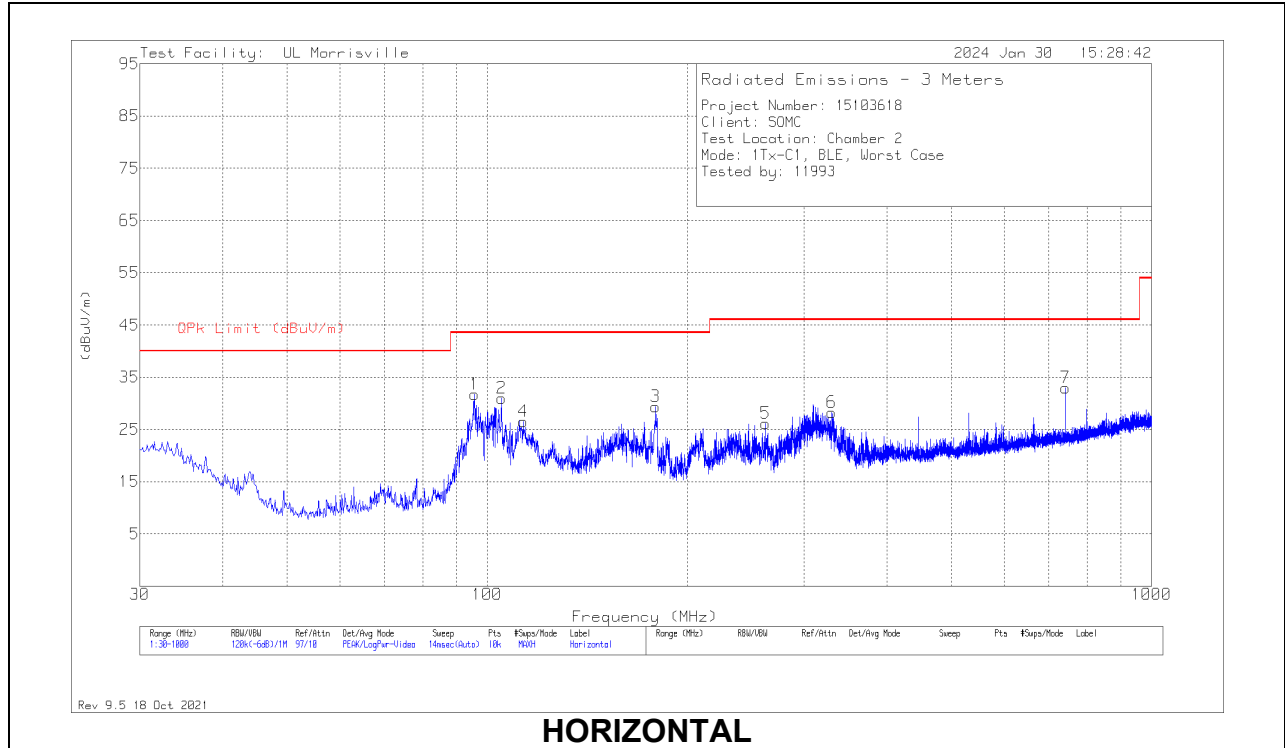


Below 1GHz Data

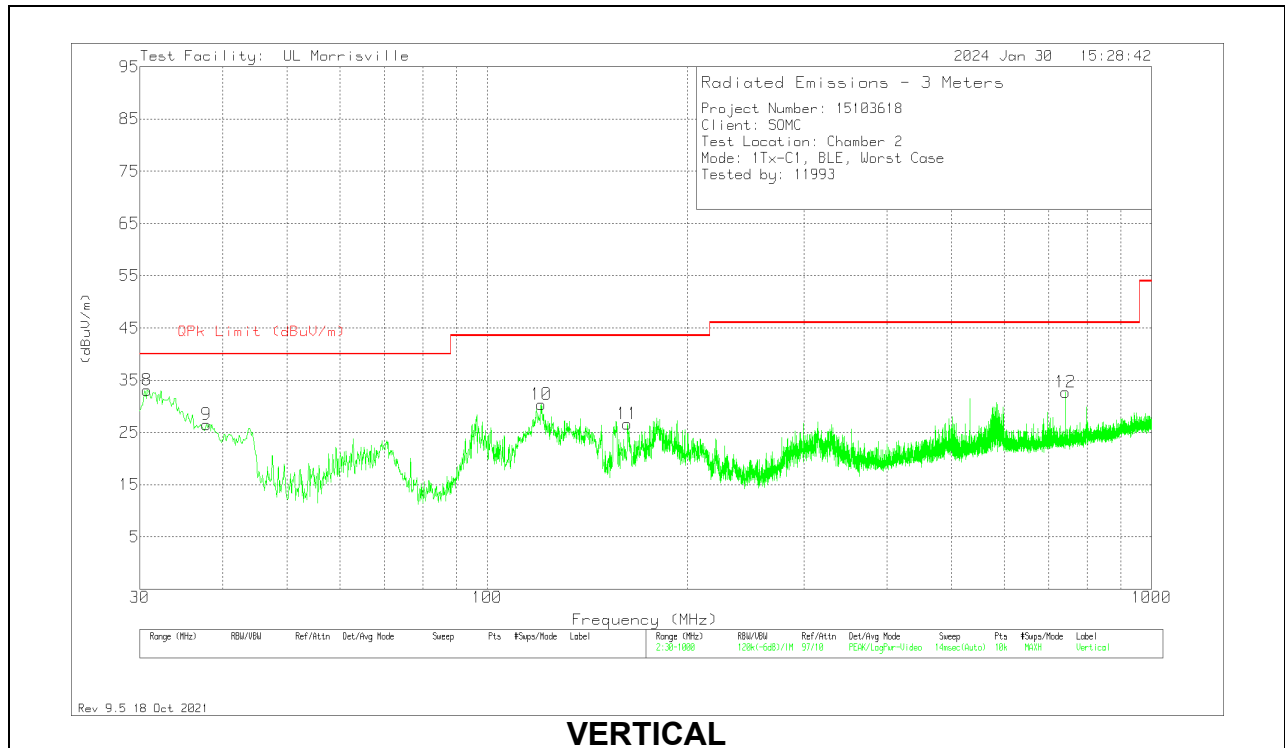
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 85717 (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 2 | * ** 112.547 | 43.84 | Pk | 18.6 | -30.9 | 31.54 | 43.52 | -11.98 | 0-360 | 299 | H |
| 3 | * ** 244.176 | 43.94 | Pk | 17.3 | -29.7 | 31.54 | 46.02 | -14.48 | 0-360 | 99 | H |
| 5 | * ** 612.291 | 31.11 | Pk | 24.6 | -28 | 27.71 | 46.02 | -18.31 | 0-360 | 199 | H |
| 8 | * ** 122.441 | 42.23 | Pk | 19.6 | -30.8 | 31.03 | 43.52 | -12.49 | 0-360 | 101 | V |
| 9 | * ** 162.696 | 41.63 | Pk | 17.8 | -30.2 | 29.23 | 43.52 | -14.29 | 0-360 | 101 | V |
| 11 | ** 742.562 | 34.15 | Pk | 26.1 | -27.6 | 32.65 | 46.02 | -13.37 | 0-360 | 101 | V |
| 6 | 30.679 | 42.19 | Pk | 26.1 | -31.7 | 36.59 | - | - | 0-360 | 101 | V |
| 7 | 31.843 | 42.44 | Pk | 25.4 | -31.6 | 36.24 | - | - | 0-360 | 101 | V |
| 1 | 95.863 | 47.64 | Pk | 15.2 | -30.8 | 32.04 | - | - | 0-360 | 299 | H |
| 10 | 180.156 | 47.13 | Pk | 17.4 | -30 | 34.53 | - | - | 0-360 | 101 | V |
| 4 | 310.524 | 45.01 | Pk | 19.5 | -29.4 | 35.11 | - | - | 0-360 | 99 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION CHAIN 1)



HORIZONTAL



VERTICAL

Below 1GHz Data

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 85717 (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|----------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 4 | * ** 113.42 | 38.59 | Pk | 18.7 | -30.8 | 26.49 | 43.52 | -17.03 | 0-360 | 299 | H |
| 5 | * ** 262.412 | 37.88 | Pk | 18 | -29.7 | 26.18 | 46.02 | -19.84 | 0-360 | 101 | H |
| 6 | * ** 330.118 | 37.63 | Pk | 19.6 | -29 | 28.23 | 46.02 | -17.79 | 0-360 | 101 | H |
| 7 | ** 742.562 | 34.42 | Pk | 26.1 | -27.6 | 32.92 | 46.02 | -13.1 | 0-360 | 101 | H |
| 9 | * ** 37.76 | 36.82 | Pk | 21.4 | -31.7 | 26.52 | 40 | -13.48 | 0-360 | 101 | V |
| 10 | * ** 120.695 | 41.62 | Pk | 19.5 | -30.8 | 30.32 | 43.52 | -13.2 | 0-360 | 101 | V |
| 11 | * ** 162.599 | 38.98 | Pk | 17.8 | -30.2 | 26.58 | 43.52 | -16.94 | 0-360 | 101 | V |
| 12 | ** 742.562 | 34.2 | Pk | 26.1 | -27.6 | 32.7 | 46.02 | -13.32 | 0-360 | 101 | V |
| 8 | 30.776 | 38.78 | Pk | 26 | -31.7 | 33.08 | - | - | 0-360 | 101 | V |
| 1 | 95.669 | 47.52 | Pk | 15.1 | -30.9 | 31.72 | - | - | 0-360 | 299 | H |
| 2 | 105.078 | 44.52 | Pk | 17.3 | -30.8 | 31.02 | - | - | 0-360 | 299 | H |
| 3 | 179.283 | 42.07 | Pk | 17.4 | -30.1 | 29.37 | - | - | 0-360 | 199 | H |

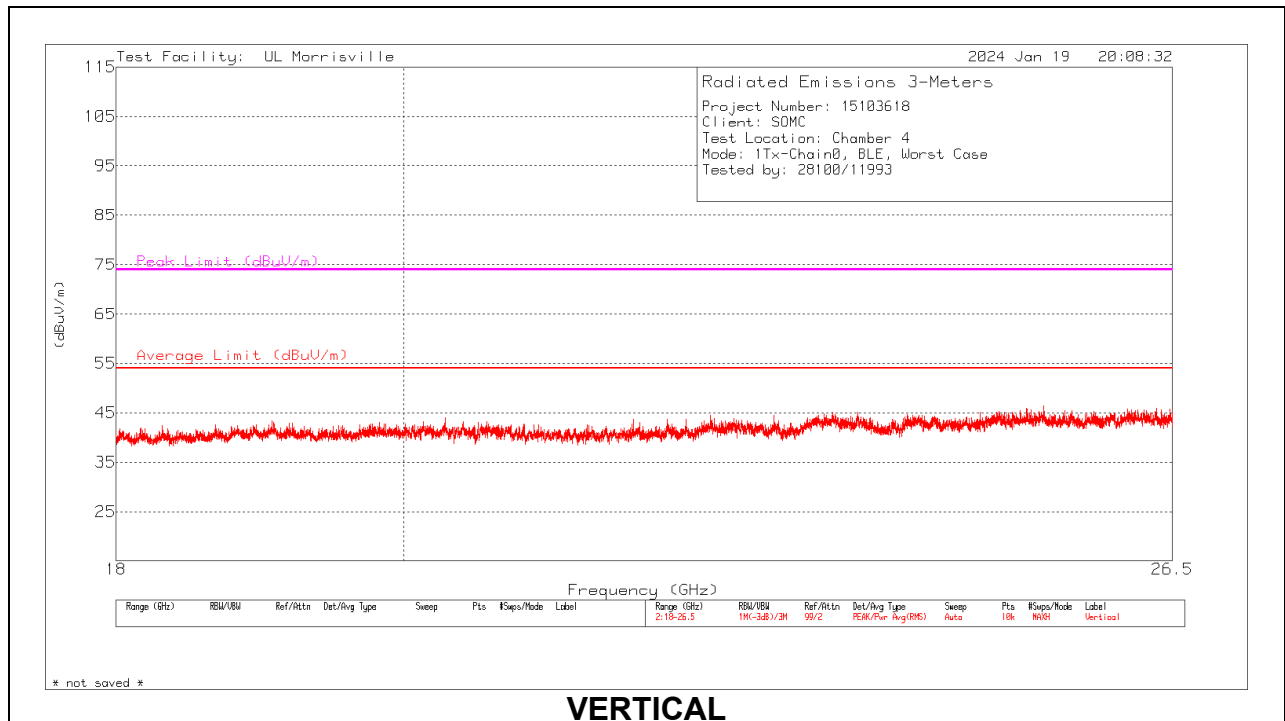
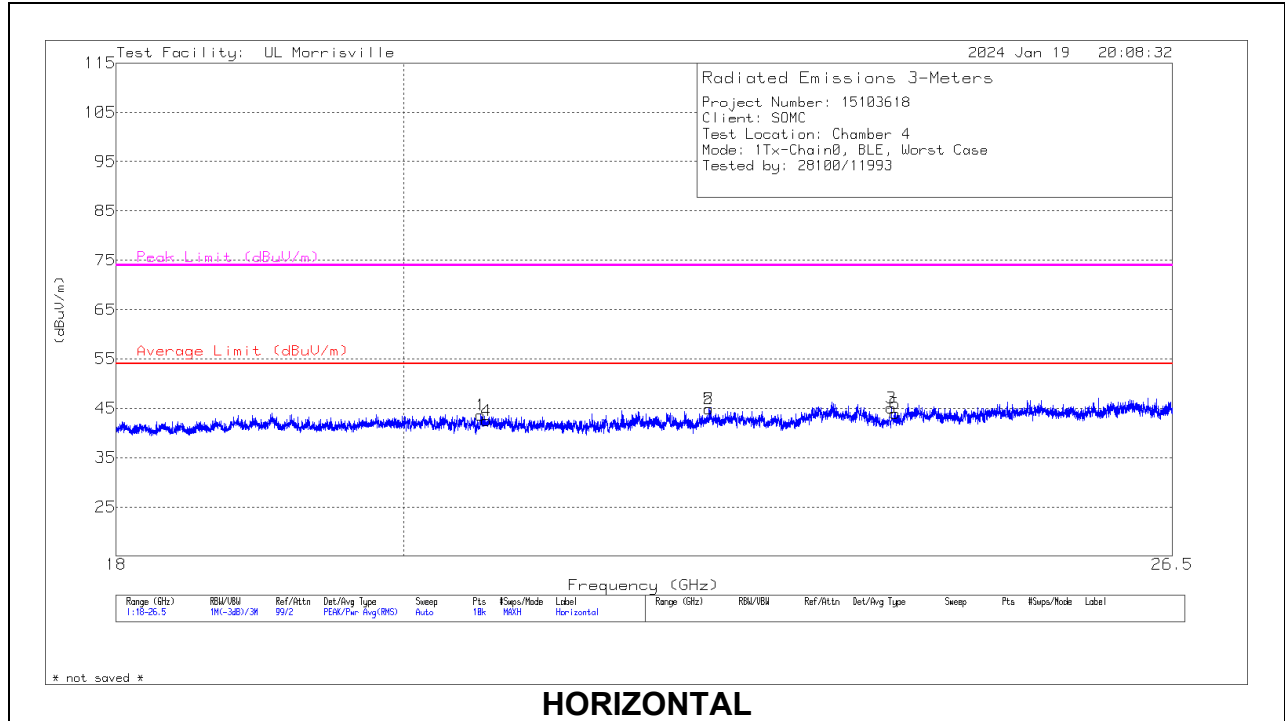
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

10.5. WORST CASE 18-26 GHZ

SPURIOUS EMISSIONS 18-26 GHZ (WORST-CASE CONFIGURATION CHAIN 0)

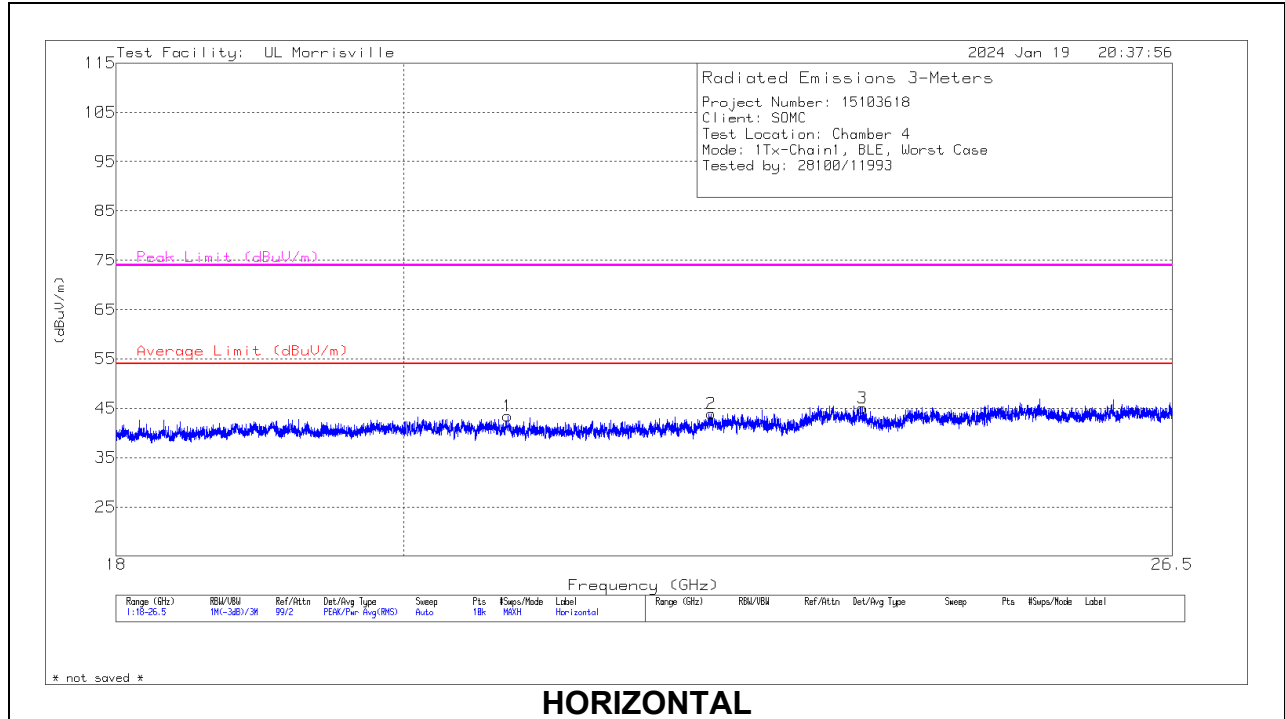


18 – 26GHz Data

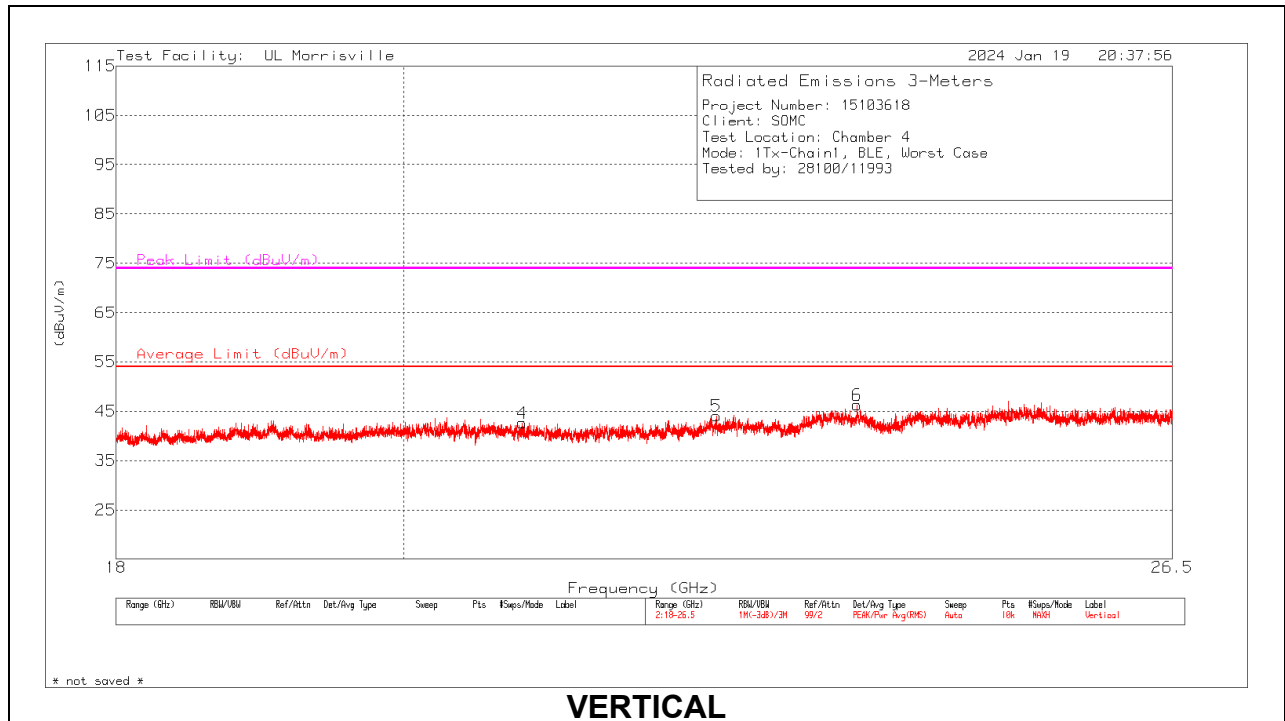
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 204704 (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1 | *** 20.57014 | 49.06 | Pk | 33.7 | -39.1 | 43.66 | 54 | -10.34 | 74 | -30.34 | 0-360 | 200 | H |
| 2 | *** 22.36346 | 49.22 | Pk | 34.1 | -38.4 | 44.92 | 54 | -9.08 | 74 | -29.08 | 0-360 | 150 | H |
| 3 | *** 23.90691 | 47.21 | Pk | 34.4 | -36.5 | 45.11 | 54 | -8.89 | 74 | -28.89 | 0-360 | 250 | H |
| 4 | *** 20.61519 | 48.59 | Pk | 33.7 | -39.8 | 42.49 | 54 | -11.51 | 74 | -31.51 | 0-360 | 100 | H |
| 5 | *** 22.36346 | 49.22 | Pk | 34.1 | -38.4 | 44.92 | 54 | -9.08 | 74 | -29.08 | 0-360 | 150 | H |
| 6 | *** 23.93921 | 45.88 | Pk | 34.4 | -36.3 | 43.98 | 54 | -10.02 | 74 | -30.02 | 0-360 | 200 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION CHAIN 1)



HORIZONTAL



VERTICAL

18 – 26GHz Data

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 204704 (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1 | * ** 20.77497 | 49.65 | Pk | 33.5 | -39.7 | 43.45 | 54 | -10.55 | 74 | -30.55 | 0-360 | 200 | H |
| 2 | * ** 22.38301 | 48.64 | Pk | 34.1 | -38.8 | 43.94 | 54 | -10.06 | 74 | -30.06 | 0-360 | 200 | H |
| 3 | * ** 23.65788 | 47.9 | Pk | 34.5 | -37.3 | 45.1 | 54 | -8.9 | 74 | -28.9 | 0-360 | 200 | H |
| 4 | * ** 20.88461 | 48.3 | Pk | 33.4 | -39.1 | 42.6 | 54 | -11.4 | 74 | -31.4 | 0-360 | 200 | V |
| 5 | * ** 22.42296 | 48.43 | Pk | 34.1 | -38.5 | 44.03 | 54 | -9.97 | 74 | -29.97 | 0-360 | 250 | V |
| 6 | * ** 23.60859 | 48.26 | Pk | 34.6 | -36.6 | 46.26 | 54 | -7.74 | 74 | -27.74 | 0-360 | 300 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|-----------------------------|------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

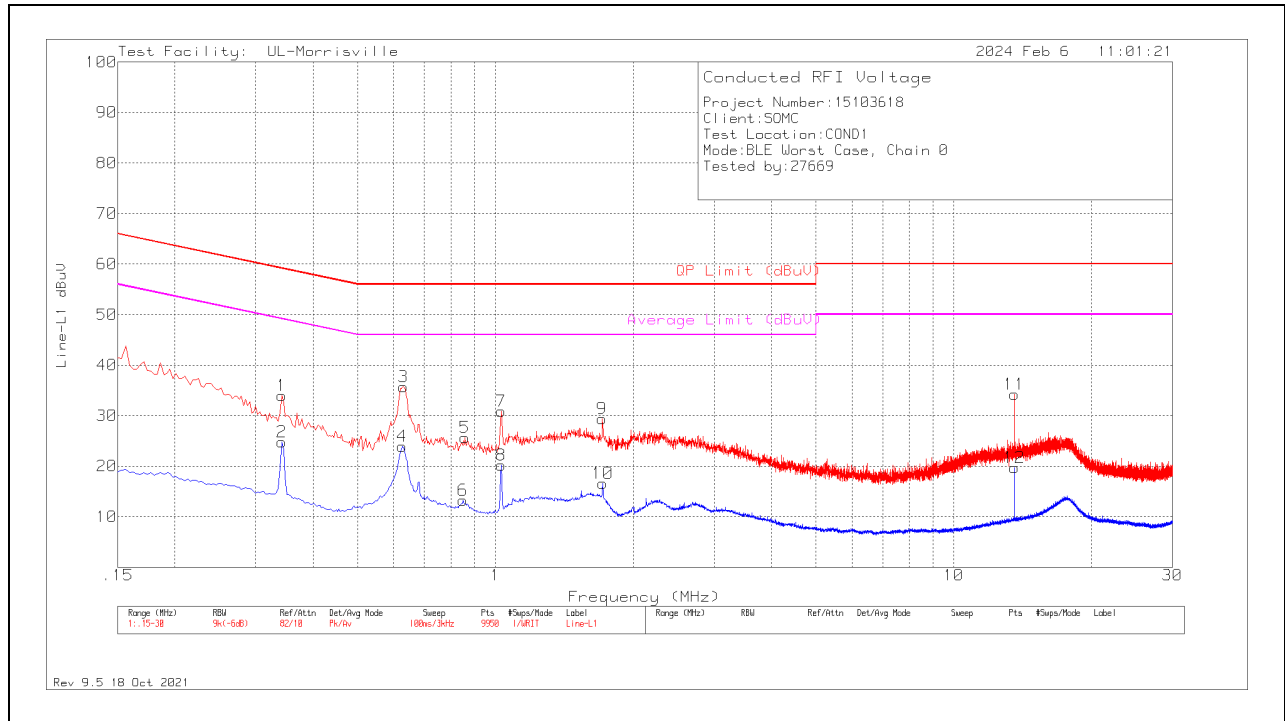
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

11.1.1. AC Power Line Norm - Chain 0

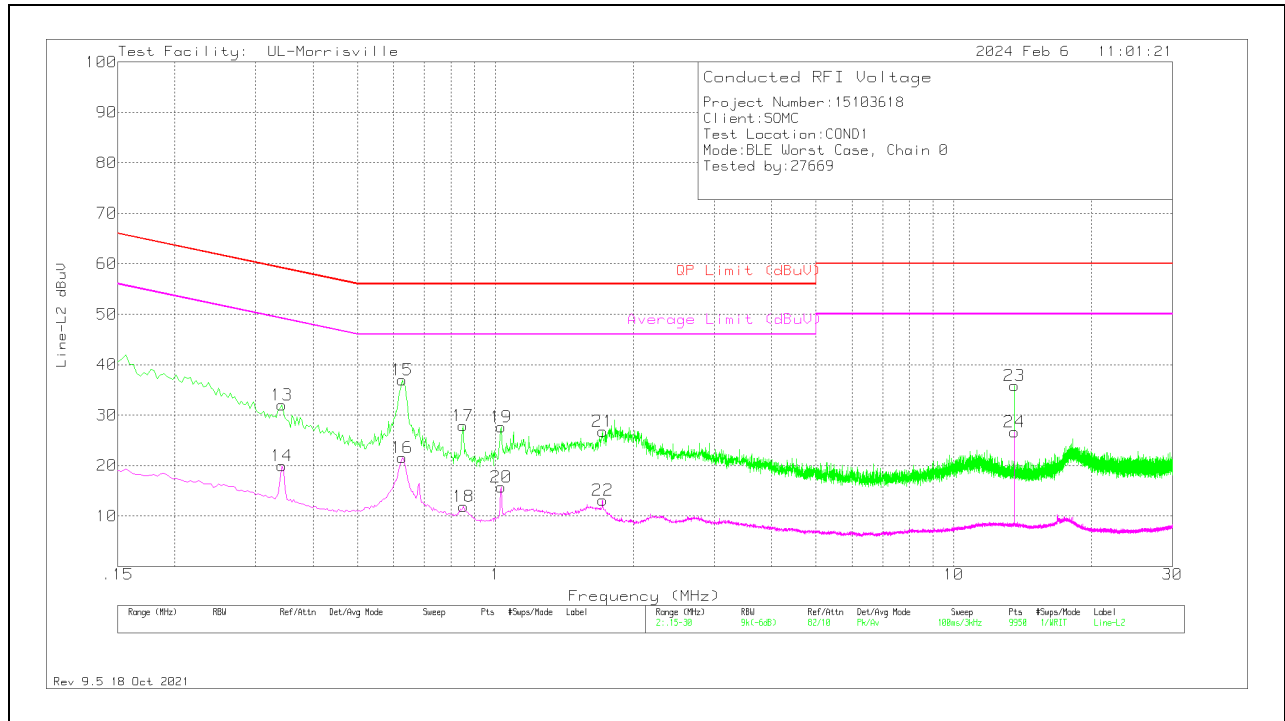
LINE 1 RESULTS



| Range 1: Line-L1 .15 - 30MHz | | | | | | | | | | |
|------------------------------|-----------------|----------------------|-----|---------------|------------------|------------------------|-----------------|-------------|----------------------|-------------|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN VDF (dB) | Cbl/Limiter (dB) | Corrected Reading dBuV | QP Limit (dBuV) | Margin (dB) | Average Limit (dBuV) | Margin (dB) |
| 1 | .342 | 24.07 | Pk | .1 | 9.8 | 33.97 | 59.15 | -25.18 | - | - |
| 2 | .342 | 14.85 | Av | .1 | 9.8 | 24.75 | - | - | 49.15 | -24.4 |
| 4 | .627 | 14.07 | Av | .1 | 9.8 | 23.97 | - | - | 46 | -22.03 |
| 3 | .63 | 25.87 | Pk | .1 | 9.8 | 35.77 | 56 | -20.23 | - | - |
| 6 | .849 | 3.3 | Av | .1 | 9.8 | 13.2 | - | - | 46 | -32.8 |
| 5 | .858 | 15.78 | Pk | .1 | 9.8 | 25.68 | 56 | -30.32 | - | - |
| 7 | 1.029 | 20.96 | Pk | .1 | 9.8 | 30.86 | 56 | -25.14 | - | - |
| 8 | 1.029 | 10.31 | Av | .1 | 9.8 | 20.21 | - | - | 46 | -25.79 |
| 9 | 1.71 | 19.47 | Pk | .1 | 9.8 | 29.37 | 56 | -26.63 | - | - |
| 10 | 1.713 | 6.67 | Av | .1 | 9.8 | 16.57 | - | - | 46 | -29.43 |
| 11 | 13.563 | 24.08 | Pk | .2 | 10 | 34.28 | 60 | -25.72 | - | - |
| 12 | 13.563 | 9.47 | Av | .2 | 10 | 19.67 | - | - | 50 | -30.33 |

Pk - Peak detector
 Av - Average detection

LINE 2 RESULTS

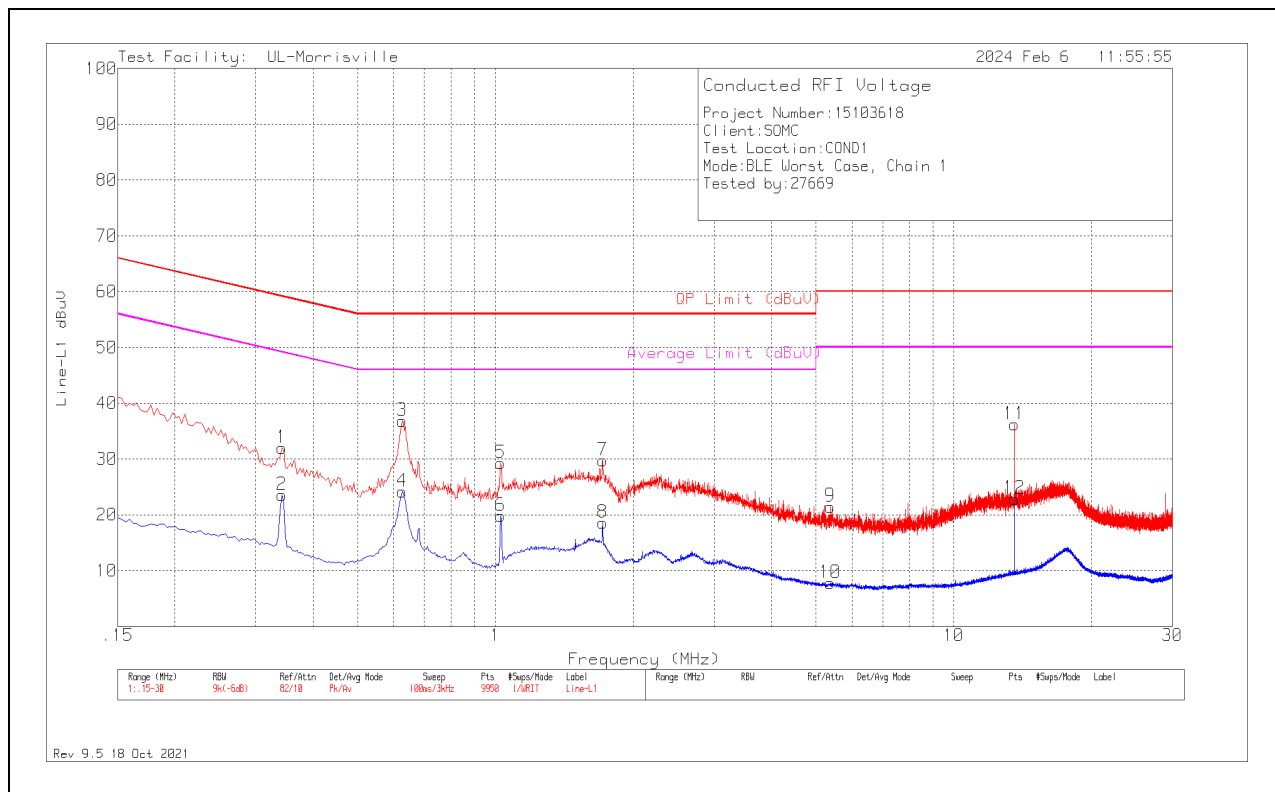


| Range 2: Line-L2 .15 - 30MHz | | | | | | | | | | |
|------------------------------|-----------------|----------------------|-----|---------------|------------------|------------------------|-----------------|-------------|----------------------|-------------|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN VDF (dB) | Cbl/Limiter (dB) | Corrected Reading dBuV | QP Limit (dBuV) | Margin (dB) | Average Limit (dBuV) | Margin (dB) |
| 13 | .342 | 22.08 | Pk | .1 | 9.8 | 31.98 | 59.15 | -27.17 | - | - |
| 14 | .342 | 10.03 | Av | .1 | 9.8 | 19.93 | - | - | 49.15 | -29.22 |
| 15 | .627 | 27.08 | Pk | .1 | 9.8 | 36.98 | 56 | -19.02 | - | - |
| 16 | .627 | 11.65 | Av | .1 | 9.8 | 21.55 | - | - | 46 | -24.45 |
| 17 | .849 | 17.98 | Pk | .1 | 9.8 | 27.88 | 56 | -28.12 | - | - |
| 18 | .852 | 1.93 | Av | .1 | 9.8 | 11.83 | - | - | 46 | -34.17 |
| 19 | 1.029 | 17.77 | Pk | .1 | 9.8 | 27.67 | 56 | -28.33 | - | - |
| 20 | 1.029 | 5.88 | Av | .1 | 9.8 | 15.78 | - | - | 46 | -30.22 |
| 21 | 1.713 | 16.91 | Pk | .1 | 9.8 | 26.81 | 56 | -29.19 | - | - |
| 22 | 1.713 | 3.2 | Av | .1 | 9.8 | 13.1 | - | - | 46 | -32.9 |
| 23 | 13.56 | 25.7 | Pk | .2 | 10 | 35.9 | 60 | -24.1 | - | - |
| 24 | 13.56 | 16.48 | Av | .2 | 10 | 26.68 | - | - | 50 | -23.32 |

Pk - Peak detector
 Av - Average detection

11.1.1. AC Power Line Norm - Chain 1

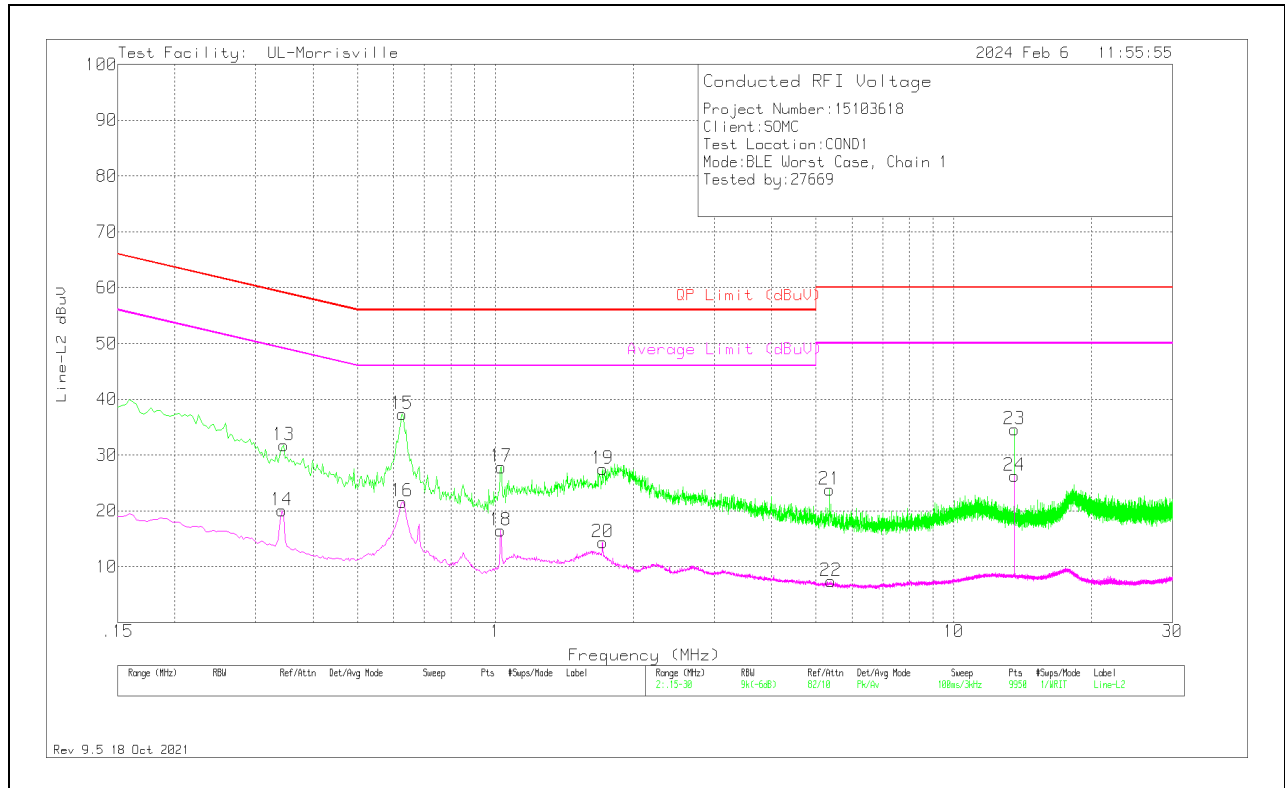
LINE 1 RESULTS



| Range 1: Line-L1 .15 - 30MHz | | | | | | | | | | |
|------------------------------|-----------------|----------------------|-----|---------------|------------------|------------------------|-----------------|-------------|----------------------|-------------|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN VDF (dB) | Cbl/Limiter (dB) | Corrected Reading dBuV | QP Limit (dBuV) | Margin (dB) | Average Limit (dBuV) | Margin (dB) |
| 1 | .342 | 22.12 | Pk | .1 | 9.8 | 32.02 | 59.15 | -27.13 | - | - |
| 2 | .342 | 13.68 | Av | .1 | 9.8 | 23.58 | - | - | 49.15 | -25.57 |
| 3 | .627 | 26.93 | Pk | .1 | 9.8 | 36.83 | 56 | -19.17 | - | - |
| 4 | .627 | 14.25 | Av | .1 | 9.8 | 24.15 | - | - | 46 | -21.85 |
| 5 | 1.026 | 19.41 | Pk | .1 | 9.8 | 29.31 | 56 | -26.69 | - | - |
| 6 | 1.026 | 9.98 | Av | .1 | 9.8 | 19.88 | - | - | 46 | -26.12 |
| 7 | 1.713 | 19.84 | Pk | .1 | 9.8 | 29.74 | 56 | -26.26 | - | - |
| 8 | 1.713 | 8.64 | Av | .1 | 9.8 | 18.54 | - | - | 46 | -27.46 |
| 10 | 5.382 | -2.27 | Av | .1 | 9.9 | 7.73 | - | - | 50 | -42.27 |
| 9 | 5.385 | 11.5 | Pk | .1 | 9.9 | 21.5 | 60 | -38.5 | - | - |
| 12 | 13.56 | 12.67 | Av | .2 | 10 | 22.87 | - | - | 50 | -27.13 |
| 11 | 13.563 | 26.07 | Pk | .2 | 10 | 36.27 | 60 | -23.73 | - | - |

Pk - Peak detector
 Av - Average detection

LINE 2 RESULTS



| Range 2: Line-L2 .15 - 30MHz | | | | | | | | | | |
|------------------------------|-----------------|----------------------|-----|---------------|------------------|------------------------|-----------------|-------------|----------------------|-------------|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN VDF (dB) | Cbl/Limiter (dB) | Corrected Reading dBuV | QP Limit (dBuV) | Margin (dB) | Average Limit (dBuV) | Margin (dB) |
| 14 | .342 | 10.19 | Av | .1 | 9.8 | 20.09 | - | - | 49.15 | -29.06 |
| 13 | .345 | 21.83 | Pk | .1 | 9.8 | 31.73 | 59.08 | -27.35 | - | - |
| 15 | .627 | 27.47 | Pk | .1 | 9.8 | 37.37 | 56 | -18.63 | - | - |
| 16 | .627 | 11.73 | Av | .1 | 9.8 | 21.63 | - | - | 46 | -24.37 |
| 18 | 1.026 | 6.59 | Av | .1 | 9.8 | 16.49 | - | - | 46 | -29.51 |
| 17 | 1.029 | 17.94 | Pk | .1 | 9.8 | 27.84 | 56 | -28.16 | - | - |
| 19 | 1.713 | 17.61 | Pk | .1 | 9.8 | 27.51 | 56 | -28.49 | - | - |
| 20 | 1.713 | 4.49 | Av | .1 | 9.8 | 14.39 | - | - | 46 | -31.61 |
| 21 | 5.361 | 13.81 | Pk | .1 | 9.9 | 23.81 | 60 | -36.19 | - | - |
| 22 | 5.391 | -2.62 | Av | .1 | 9.9 | 7.38 | - | - | 50 | -42.62 |
| 23 | 13.56 | 24.43 | Pk | .2 | 10 | 34.63 | 60 | -25.37 | - | - |
| 24 | 13.56 | 16.13 | Av | .2 | 10 | 26.33 | - | - | 50 | -23.67 |

Pk - Peak detector
 Av - Average detection

12. SETUP PHOTOS

Please refer to R15103618-EP3 for setup photos

END OF TEST REPORT